FIFTY CENTS

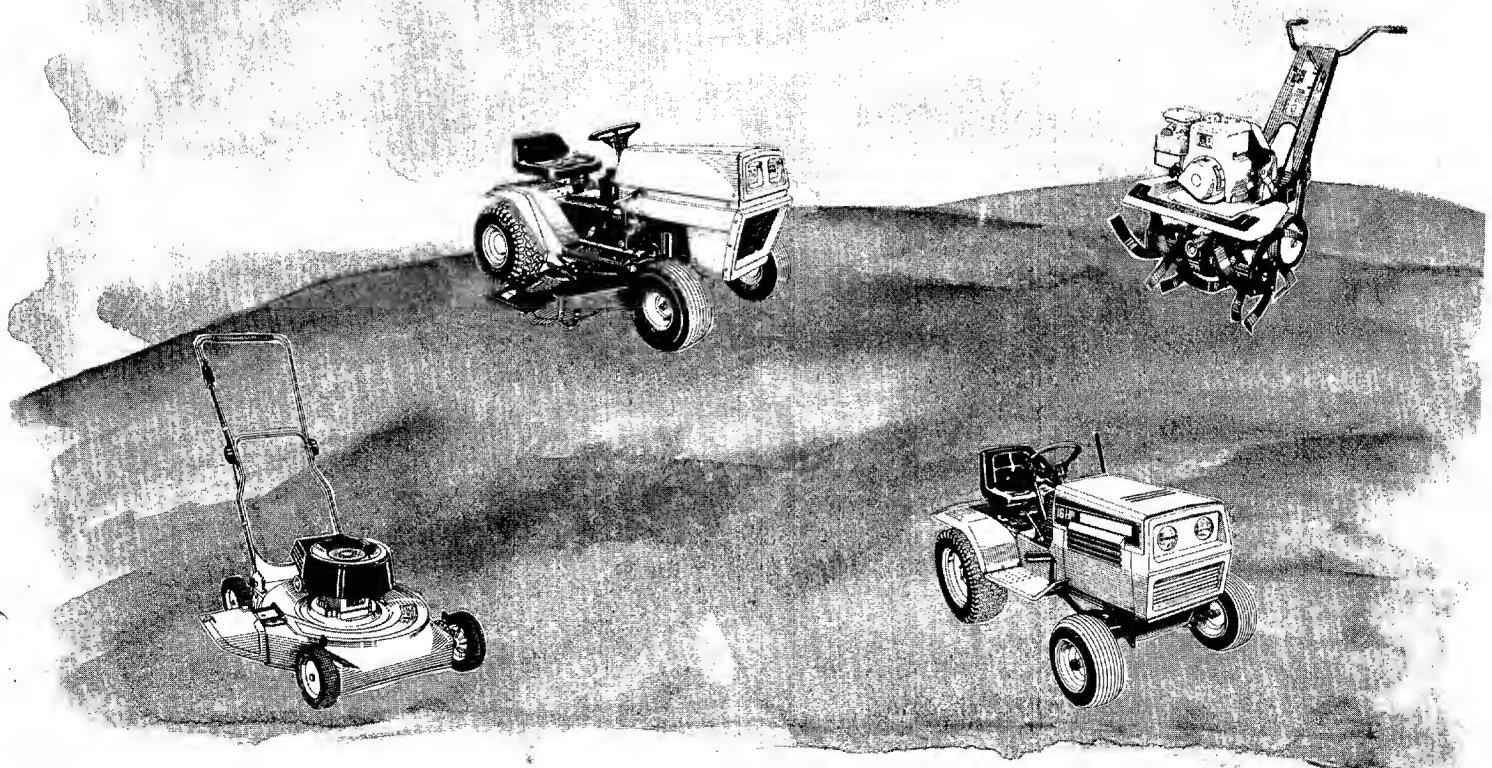
# OWNER'S GUIDE

**MODEL NOS.**
**139-390A**
**139-395A**

## ASSEMBLY
## OPERATION
## PARTS
## MAINTENANCE

# 30" RIDING MOWERS

**IMPORTANT:**
**READ SAFETY RULES & INSTRUCTIONS**



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FORM No. 770-8280

# LIMITED WARRANTY

For one year from the date of original retail purchase, MTD PRODUCTS INC will either repair or replace, at its option, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges under this warranty must be paid by the purchaser unless return is requested by MTD PRODUCTS INC.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

This warranty will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of MTD.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by MTD.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

**WARNING TO PURCHASERS**
**OF INTERNAL COMBUSTION ENGINE EQUIPPED**
**MACHINERY OR DEVICES IN THE STATE OF CALIFORNIA**

The equipment which you have just purchased does not have a spark arrester. If this equipment is used on any forest covered land, brush covered land, or grass covered unimproved land in the State of California, before using on such land, the California law requires that a spark arrester be provided. In addition, spark arrester is required by law to be in effective working order. The spark arrester must be attached to the exhaust system and comply with Section 4442 of the California Public Resources Code.

# ➡ IMPORTANT

It is suggested that this manual be read in its entirety before attempting to assemble or operate. Keep this manual in a safe place for future reference and for ordering replacement parts.

This unit is shipped WITHOUT GASOLINE or OIL. After assembly, see operating section of this manual for proper fuel and amount.

Your rotary mower is a precision piece of power equipment, not a plaything. Therefore exercise extreme caution at all times.

# SAFE OPERATION PRACTICES FOR RIDING VEHICLES

1. Know the controls and how to stop quickly—READ THE OWNER'S MANUAL.
2. Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
3. Do not carry passengers.
4. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower. Although the area of operation should be completely cleared of foreign objects, a small object may have been overlooked and could be accidently thrown by the mower in any direction.
5. Clear work area of objects which might be picked up and thrown by the mower in any direction.
6. Disengage all attachment clutches and shift into neutral before attempting to start engine.
7. Disengage power to attachment(s) and stop engine before leaving operator position.
8. Disengage power to attachment(s) and stop engine before making any repairs or adjustments. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
9. Before attempting to unclog the mower or discharge chute, stop the engine and be sure the blade(s) have stopped completely. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
10. Disengage power to attachment(s) when transporting or not in use.
11. Take all possible precautions when leaving vehicle unattended such as disengaging power-take-off, lowering attachments, shifting into neutral, setting parking brake, stopping engine and removing key.
12. Do not stop or start suddenly when going uphill or downhill. Mow up and down face of steep slopes; never across the face.
13. Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
14. Stay alert for holes in terrain and other hidden hazards.
15. Use care when pulling loads or using heavy equipment.
    A. Use only approved drawbar hitch points.
    B. Limit loads to those you can safely control.
    C. Do not turn sharply. Use care when backing.
    D. Use counterweight(s) or wheel weights when suggested in owner's manual.
16. Watch out for traffic when crossing or near roadways.
17. When using any attachments never direct discharge of material toward bystanders nor allow anyone near vehicle while in operation.
18. Handle gasoline with care—it is highly flammable.
    A. Use approved gasoline container.
    B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors. Wipe up spilled gasoline.
    C. Open doors if engine is run in garage—exhaust fumes are dangerous. Do not run engine indoors.
19. Keep the vehicle and attachments in good operating condition, and keep safety devices in place. Use guards as instructed in owner's manual.
20. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
21. Never store the equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow engine to cool before storing in any enclosure.
22. To reduce fire hazard keep engine free of grass, leaves or excessive grease.
23. The vehicle and attachments should be stopped and inspected for damage after striking a foreign object, and the damage should be repaired before restarting and operating the equipment.
24. Do not change the engine governor settings or overspeed the engine.
25. When using the vehicle with mower, proceed as follows:
    (1) Mow only in daylight or in good artificial light.
    (2) Never make a cutting height adjustment while engine is running if operator must dismount to do so.
    (3) Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher.
    (4) Check blade mounting bolts for proper tightness at frequent intervals.
26. Check grass catcher bags frequently for wear or deterioration. For safety protection replace only with new bag meeting original equipment specifications.
27. Look behind to make sure the area is clear before placing the transmission in reverse and backing up.

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**IMPORTANT**

After striking a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

The steering wheel and seat, with the necessary hardware, are easily assembled to the machine. On the electric starter models, the battery must be activated and installed as outlined in this section.

**FOR SHIPPING PURPOSES, THE TIRES ON YOUR UNIT MAY BE OVER-INFLATED. TIRE PRESSURE SHOULD BE REDUCED BEFORE UNIT IS PUT INTO OPERATION. RECOMMENDED PRESSURE SHOULD BE APPROXIMATELY 15 P.S.I. EQUAL TIRE PRESSURE SHOULD BE MAINTAINED ON ALL TIRES. MAXIMUM TIRE PRESSURE IS 30 P.S.I.**

**CAUTION**

Installation of tire to rim:

1. Lubricate tire beads and rim flanges.
2. Do not exceed 30 P.S.I. when seating beads.
3. Adjust to recommended pressure after beads are sealed.

# ASSEMBLY

Step 1. Remove the lawn mower and all parts from the carton. Make certain that all loose parts and literature have been removed before the carton is discarded.

Step 2. Place steering wheel over steering shaft.

Step 3. Secure with Belleville washer and hex nut. See figure 2.

Step 4. Press the cap on the steering wheel by hand. See figure 2.

**NOTE**

Reference to right-hand or left-hand side of machine is from the driver's seat facing forward.

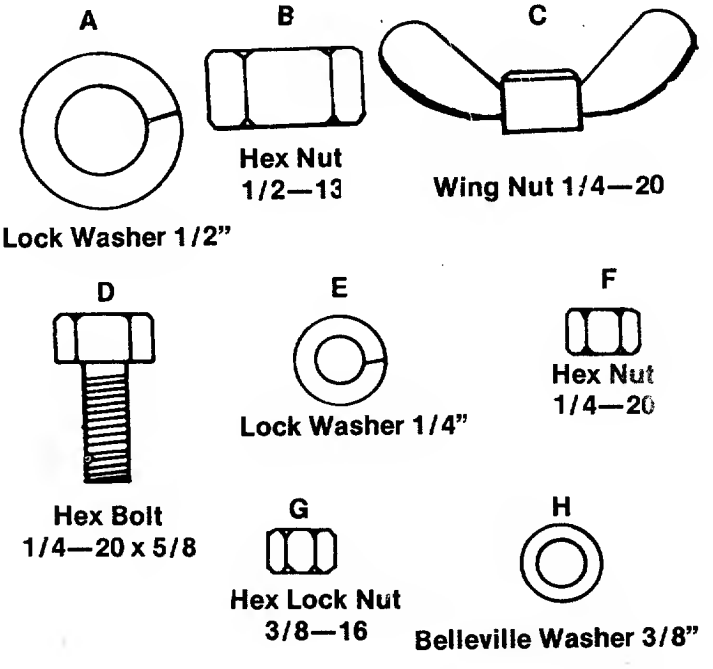



**FIGURE 1. HARDWARE SUPPLIED**

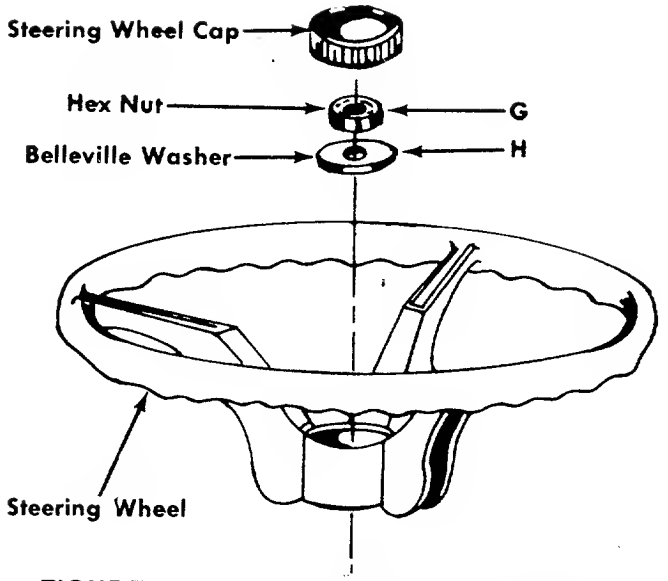



**FIGURE 2. STEERING WHEEL ASSEMBLY**

Step 5. Your molded seat comes with the mounting bolt molded in the seat.

A. Select one of three hole locations on seat spring.

B. Place seat on spring and secure with lockwasher (A) and hex nut (B). See figures 1 and 3.

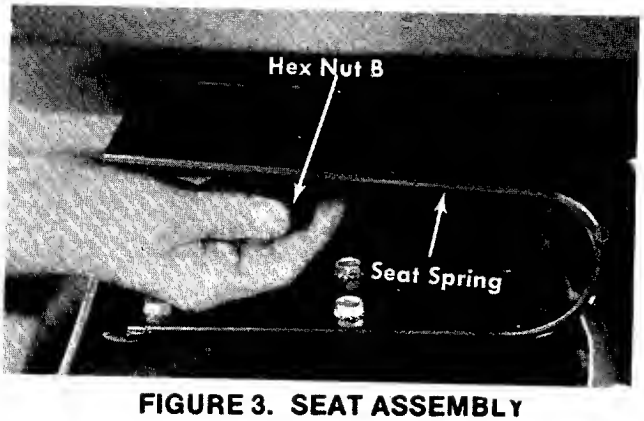



**FIGURE 3. SEAT ASSEMBLY**

**NOTE**

Check all nuts and bolts for correct tightness.

## BATTERY INFORMATION FOR ELECTRIC START MODELS

**WARNING**

A. Battery acid must be handled with great care as it will blister the skin and damage clothing. It is advisable to wear goggles, rubber gloves, and a protective apron when working with it.

B. Neutralize acid spilled on clothing with dilute ammonia water or a water solution of baking soda. If acid gets on clothes, dilute it with clean water first, then neutralize.

C. If for any reason acid should be spattered in the eyes, wash it out immediately with clean cold water. Seek medical aid if discomfort continues.

D. Since battery acid is corrosive to metals, do not pour into any sink or drain. Rinse empty electrolyte containers and mutilate before discarding.

**DANGER**

BATTERIES CONTAIN SULFURIC ACID MAY CONTAIN EXPLOSIVE GASES (when electrolyte has been added)

A. Keep sparks, flame, cigarettes away.

B. Hydrogen gas is generated during charging and discharging.

C. Ventilate when charging or using in enclosed space.

D. When using a charger—to avoid sparks—NEVER connect or disconnect charger clips to battery while charger is turned on.

E. Always shield eyes, protect skin and clothing when working near batteries.

### A. Activating the Battery

1. Place battery to be filled on bench or workbench. NEVER activate battery in unit. Remove vent caps from all cells.
2. Fill each cell carefully using battery grade 1.250—1.265 specific gravity. Sulfuric acid to be 3/8" above the top of the separators or to the split ring.
3. Allow battery to set for 20 minutes to ½ hour. Add additional acid if necessary to bring it up to the proper level.
4. Replace the vent caps.
5. The battery can now be charged after the 20 minutes setting period. Battery can be SLOW CHARGED (DO NOT FAST CHARGE) at a maximum bench rate of 4-5 amperes until the specific gravity reading is 1.265—1.275. A charging rate in excess of this will buckle and warp the positive plates and perforate the separators. If electrolyte bubbles violently while charging, reduce charging rate until excessive bubbling action subsides, then continue charging until specific gravity is reached.

**CAUTION**

After the battery has been in service, add only approved water. DO NOT ADD ACID.

**B. To Install Battery**

To install the battery in this unit, refer to next column.

**C. Maintenance**

1. Check periodically (every two weeks or before and after charging) to be sure electrolyte level is 9/16" above separator plates. Add only distilled water or good quality drinking water. NEVER add additional acid or other chemicals to battery after initial activation.
2. The battery should be checked with a hydrometer after every 25 hours of operation. If the specific gravity is less than 1.225 remove battery and recharge.
3. Coat the terminals and exposed wiring with a thin coat of grease or petroleum jelly for longer service and protection against electrolyte corrosion.
4. The battery should be kept clean. Any deposits of acid should be neutralized with soda and water. Be careful not to get this solution in the cells.

**D. Storage**

1. Charge battery using normal methods. NEVER store discharged battery as it will not recover.
2. Store in cold, dry place.
3. Recharge battery whenever the specific gravity is less than 1.225 before returning to service or every two months, whichever occurs first.

**E. Common Causes for Battery Failure Are:**

1. Overcharging
2. Undercharging
3. Lack of water
4. Loose hold downs and/or corroded connections
5. Excessive loads
6. Battery electrolyte substitutes
7. Freezing of electrolyte

**NOTE**

THESE FAILURES DO NOT CONSTITUTE WARRANTY.

# INSTALL THE BATTERY

A. Open the hood of the mower.

B. Place the battery with the terminals to the FRONT in the battery case. See figure 4.

C. Hook both hold-down rods under the battery case and place the hold down over the battery caps and secure with wing nuts D.

**CAUTION**

Be sure the flared edge of the hold down is facing up to avoid damage to the battery.

D. Attach the free end of the positive cable and the small wire from the ammeter, to the positive battery terminal with bolt E, washer F and nut G. The battery terminal is marked +.

E. Attach the free end of the negative cable to the negative terminal with bolt E, washer F and nut G. Battery terminal is marked -.

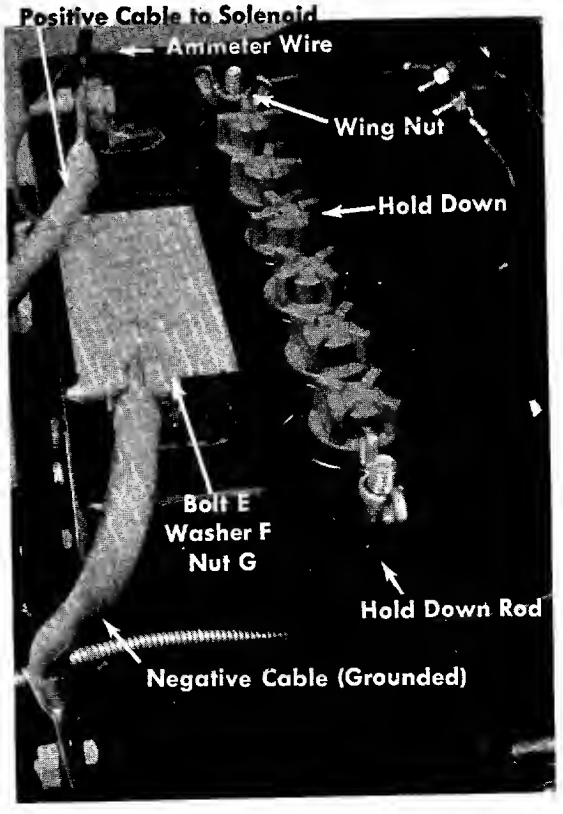



**FIGURE 4. INSTALLING THE BATTERY**

# CONTROLS (See figure 5.)

This manual should be read in its entirety before you operate your Riding Mower. The more you know and understand about the machine and its operation, the better job it will do for you. While reading the manual, compare the illustrations with your mower to familiarize yourself with the locations of various controls, lubrication points, attachments and adjustment features.

Study the operating instructions and safety precautions thoroughly to insure proper functioning of your mower and to prevent injury to yourself and others. Be sure to save this manual for future reference.

### THROTTLE CONTROL

The throttle control is used to regulate the engine speed and to activate the choke on the engine. To get maximum efficiency from cutting, the throttle should be in the FAST position when operating the mower. Pushing the throttle all the way forward, past FAST will choke the engine. See figure 5.

### IGNITION KEY

**Recoil Model.** The key must be turned to the ON position before you pull the recoil handle to start the engine. Remove the key when the mower is not in use. Turn the key to the left to the OFF position to stop the engine. See figure 10.

**Electric Model.** The key must be turned to the START position to start the engine. After the engine is running let the key return to the ON position. Remove the key when the mower is not in use. Turn the key to the OFF position to stop the engine. See figure 5.

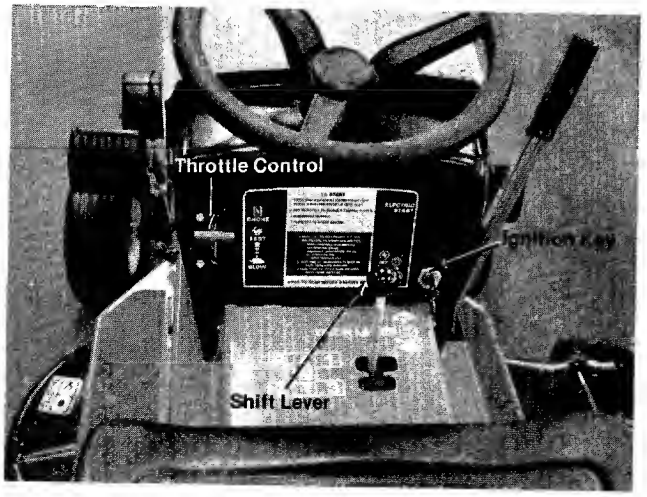



**FIGURE 5. CONTROLS**

### INTERLOCKS (Not Shown)

An interlock safety switch is located on the clutch pedal and the lift and disengagement lever.

The clutch pedal must be depressed all the way down and can be locked and the lift and disengagement lever must be in the disengaged position before the engine can be started.

On the recoil start model, the ignition will be grounded and on the electric start model, the starter will not run.

### BRAKE

The brake pedal is located on the right hand side of the mower and is operated by depressing it with your right foot. See figure 6.

### BRAKE LOCK

The brake lock is located on the right hand side of the mower. To lock the brake, depress the brake pedal and lift up the lock button. The pedal will stay depressed. To release, depress the brake pedal. Always lock the brake when you park the mower. See figure 6.

### CLUTCH

The clutch pedal is located on the left hand side of the mower and is operated with your left foot. Depress the pedal to disengage the drive mechanism. Release the clutch slowly to engage. The clutch and brake pedals must both be depressed when stopping the mower. When shifting gears, the clutch pedal must be disengaged and the mower cannot be moving. See figure 7.

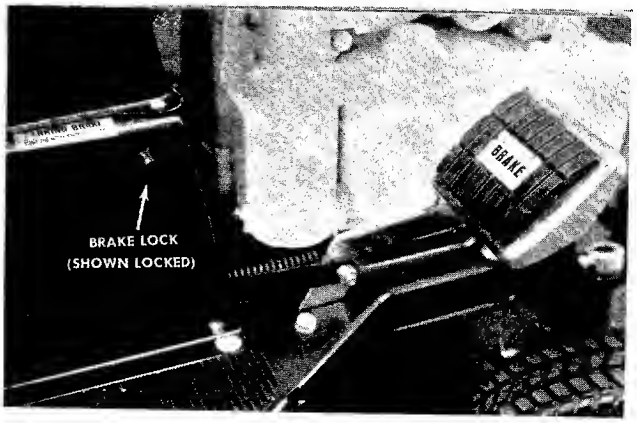



**FIGURE 6. BRAKE AND BRAKE LOCK**

## CLUTCH LOCK

When the clutch pedal is depressed all the way it can be locked by lifting up the lock button. The pedal will stay depressed. To release, depress the pedal. See figure 7.

**NOTE**

The clutch pedal must be depressed to start the engine.

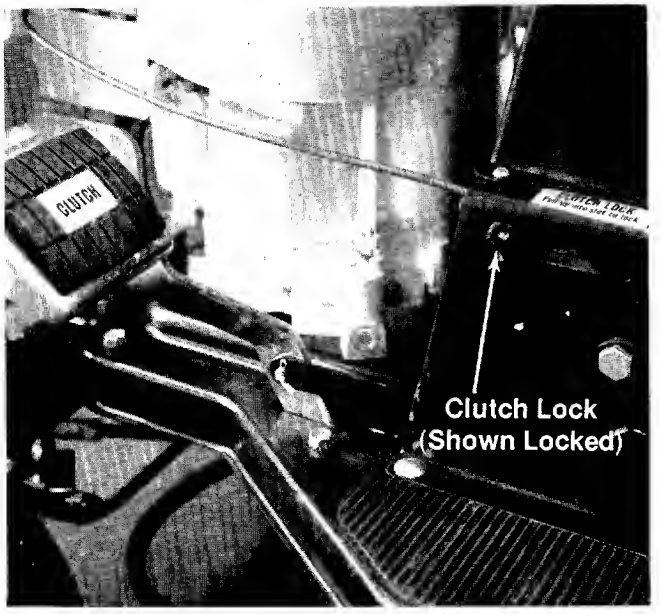



**FIGURE 7. CLUTCH AND CLUTCH LOCK**

## GEAR SHIFT LEVER

**Three Speed**—The three speed transmission has three forward speeds, neutral and reverse. The clutch pedal must be depressed to shift gears. It may be necessary to release the clutch pedal slightly to shift the gear shift lever. Do not force the shift lever.

1st Gear—Heavy Cutting
2nd Gear—Medium Cutting
3rd Gear—Medium Cutting
N—Neutral
R—Reverse

See figures 5 and 8.

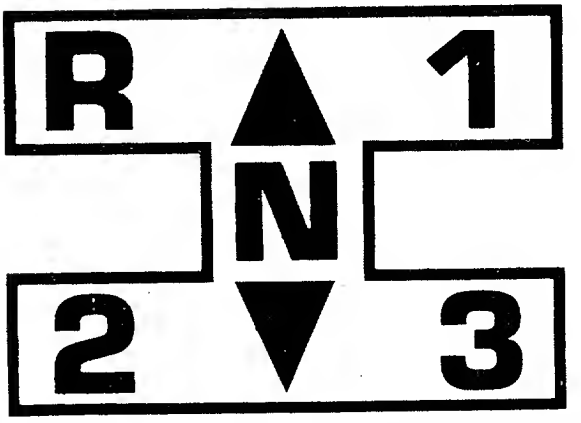



**FIGURE 8. THREE SPEED TRANSMISSION**

## RECOIL STARTER HANDLE

The recoil starter handle is located on the right side of the dashboard. The recoil starter handle can either be pulled while seated on the rider or pulled while standing behind the rider. The ignition key must be on before the engine will start. After the engine starts, the recoil starter handle must be returned and locked into the dashboard before the blade or clutch are engaged. The engine will stop if you do not follow these instructions. See figure 9.

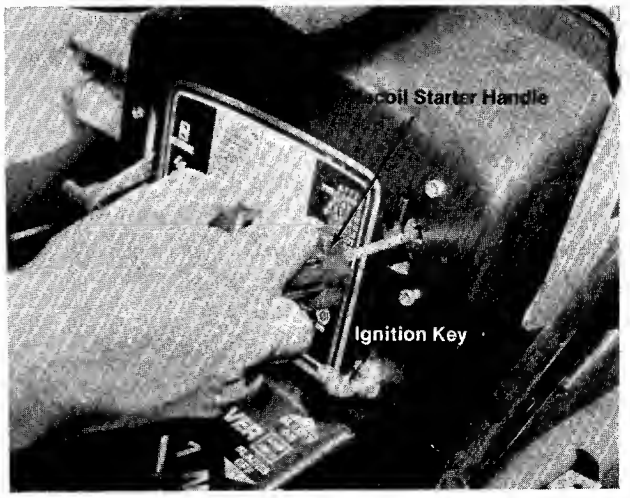



**FIGURE 9. RECOIL STARTER**

## LIFT AND DISENGAGEMENT LEVER

It is used to raise the cutting deck. Pulling it all the way back and locking it disengages the blade.

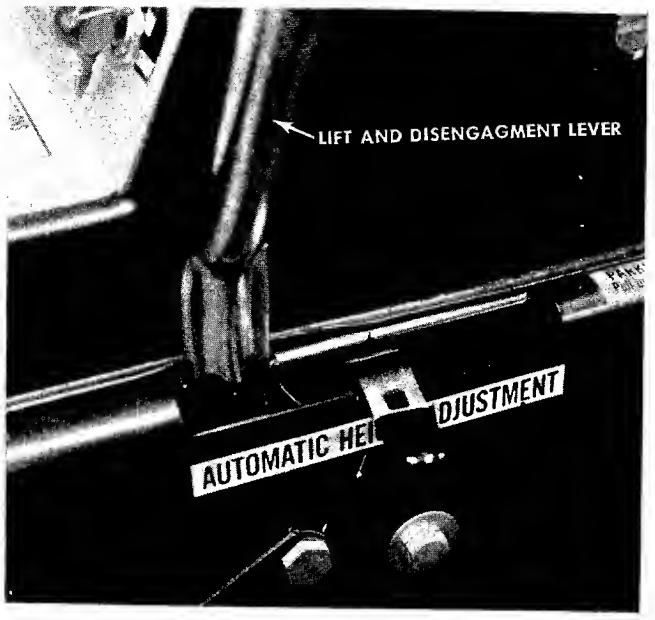



FIGURE 10. HEIGHT OF CUT SETTINGS

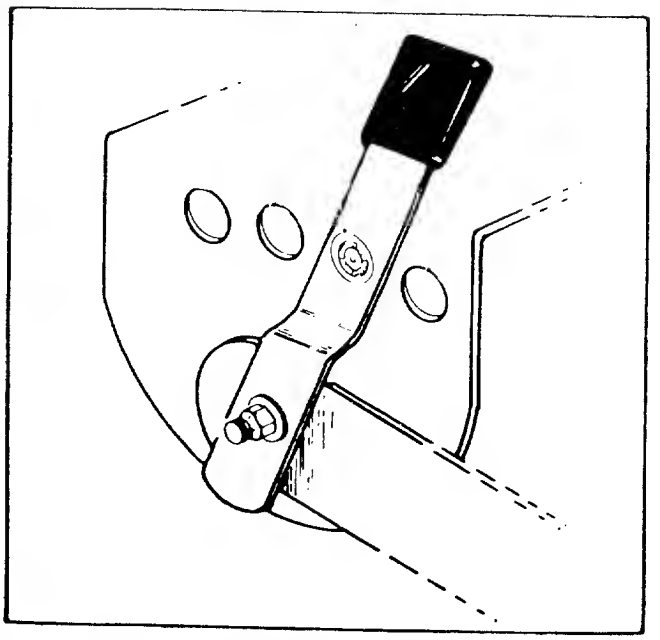


FIGURE 11 WHEEL HEIGHT ADJUSTER

**NOTE**

The engine will not start unless the lift and disengagement lever is in the disengaged position. See figure 10.

## CUTTING CONTROLS

The cutting controls consist of the height of cut stop and the wheel height adjusters.

**Height of Cut Stop.** See figure 10. Lift the stop and set it at the desired cutting height. Allow the lift and disengagement lever to come forward to rest against the height of cut stop.

**Wheel Height Adjuster.** Move the lever towards the wheel and set it in the desired cutting height position. See figure 11. Both wheels must be in the same relative position.

## SETTING THE CUTTING HEIGHT

The cutting height of the mower can be set in two different ways: Full Float position where the deck follows the contour of the ground, and the Suspended position where the deck hangs from the frame of the rider. The suspended position is normally used for cutting rough uneven ground.

**To set the cutting deck in the full float position:** set the wheel height adjusters in the desired cutting height as indicated in figure 11. Set height of cut stop in the lowest position. See figure 10.

**To set the cutting deck in the suspended position:** set the height of cut stop in the desired cutting height and then set the deck wheel so they just clear the ground.

**CAUTION**

Parking Brake **must** be disengaged before unit is put into motion.

**NOTE**

Unit is equipped with separate brake and clutch pedals. To efficiently stop, it is necessary to disengage clutch when applying brakes.

# OPERATING INSTRUCTIONS

**CAUTION**

1. Keep all shields and guards in place.
2. Before leaving operator's position:
   - Shift controls into neutral
   - Set parking brake
   - Disengage attachment drive
   - Shut off engine
   - Remove ignition key
3. Wait for all movement to stop before servicing machine.
4. Keep people and pets a safe distance away from machine.

## STARTING THE ENGINE

1. Be sure the crankcase is filled with oil as recommended in the engine manual and put regular gasoline in the gasoline tank.

2. If the engine is equipped with a fuel shut off valve, be sure it is open.

3. Attach the wire to the spark plug.

4. Depress the clutch pedal and lock it down with the speed control lever.

5. Move the lift and disengagement lever backward to the disengaged position and lock it.

6. Set the throttle control lever in the CHOKE position.

7. **Recoil Model.** Turn the ignition key to the ON position, twist the recoil starter handle until it is free and pull it with a quick steady motion. After the engine starts, return the recoil starter handle and twist it until it locks. See figures 9 and 12.

**NOTE**

The engine will stop when clutch or blades are engaged if this procedure is not followed.

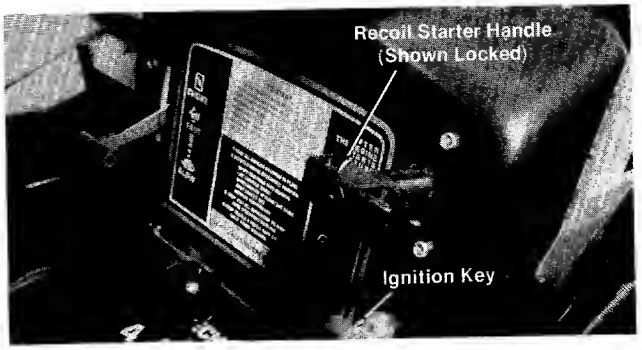



**FIGURE 12. RECOIL STARTER**

**Electric Start Model.** Turn the ignition key to the START position. As soon as the engine starts let the key return to the ON position. See figure 5.

Slowly return the throttle to the running position as soon as the engine starts.

8. To stop either model, turn the ignition key to the OFF position and remove the key when the unit is not in use.

## PUTTING THE RIDER IN MOTION

1. Advance the throttle control from ¾ to full throttle to prevent strain on the engine and to operate the cutting blades.

2. Depress the clutch pedal so the clutch lock releases.

3. Place the gear shift lever in the number 1 position on the three speed unit.

4. Slowly release the clutch pedal.

5. To stop the unit, depress the clutch pedal and the brake pedal.

6. The blade can be engaged either while moving or while standing still. Move the lift and disengagement lever forward slowly until the blade is running.

**NOTE**

As you become more familiar with the four speed transmission, stop the unit and shift into a higher gear.

### STOPPING

**Engine**—Turn the ignition key to the left to the OFF position.

**Rider**—Depress the clutch and brake pedals.

**Blades**—Move the lift and disengagement lever all the way to the rear and lock it.

# MAINTENANCE

### CRANKCASE OIL

To ensure maximum engine performance, perform the following periodic maintenance:

**Check oil level** before starting engine and after every 5 hours of operation. Be sure oil level is maintained to FULL POINT OF OVERFLOWING or to FULL MARK on dipstick.

**Change Oil** after first 5 hours of operation. Thereafter change oil every 25 hours of operation. Remove oil drain plug and drain oil while engine is warm. Replace drain plug. Remove dipstick or filler plug and refill with new oil of proper grade. Replace dipstick or plug.

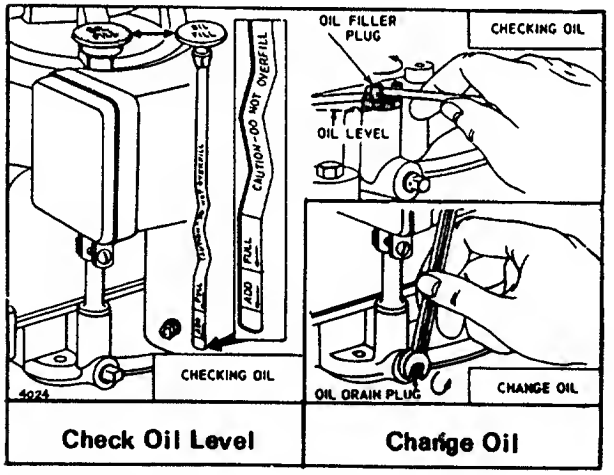



**FIGURE 13. CHECKING OIL**

**NOTE**

To insure safe operation, ALL nuts and bolts must be checked periodically for correct tightness.

### MOWER DECK

The underside of the mower deck should be cleaned after each period of use as grass clippings, leaves, dirt and other matter will accumulate. This accumulation of grass clippings, etc., is undesirable as it will invite rust and corrosion and may cause an uneven discharge of grass clippings at the next mowing.

The deck may be cleaned by tilting the mower on its rear wheels. Scrape clean with a suitable tool or by washing with a stream of water from a garden hose.

Be sure to disconnect the spark plug wire and ground it while performing this maintenance.

### BLADES

**WARNING**

Disconnect the spark plug wire and remove the ignition key before removing the blades.

Sharp and balanced blades are essential for efficient mowing and long mower and engine life. When sharpening blades, file equal amounts of metal from each side. The blades should be balanced before they are reinstalled. An unbalanced blade will cause excessive vibration and undue wear on the mower and the engine. When reassembling, all parts must be installed in the proper order and fastened securely.

Remove the 3/8" bolt and lockwasher. Pull the blade and adapter off the mower deck. To remove the adapter form the blade, remove the two 5/16" bolts, lockwashers and nuts. See figure 14.

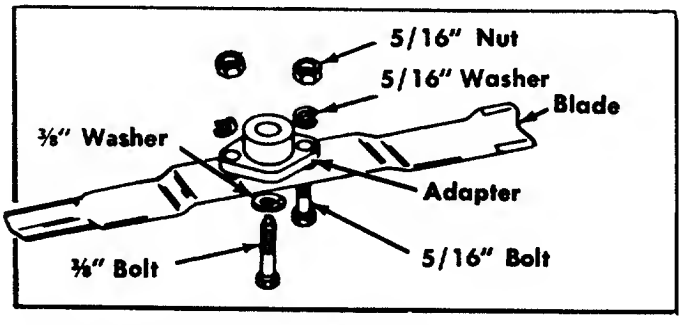



**FIGURE 14. BLADE REMOVAL**

### BRAKE ADJUSTMENT See figure 16.

To adjust the brake tighten the locknut one half turn and then test the brakes. After attaining the proper adjustment, replace the cotter pin.

The brake is located by the right rear wheel inside the frame.

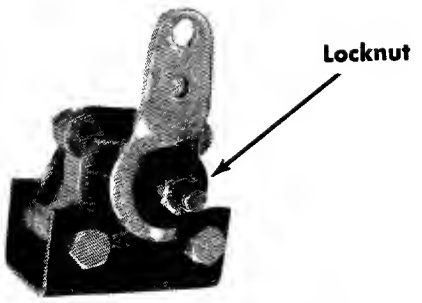



**FIGURE 15. BRAKE ADJUSTMENT**

### CHAIN ADJUSTMENT

After the first five hours of operation the initial slack should be removed from the chain. The chain should be tight enough so that it deflects approximately ½" when it is depressed with the thumb.

To tighten the chain, loosen the two locking nuts on each side of the rear axle.

Tighten the adjusting nuts until the proper chain tension is obtained.

Tighten the locking nuts on the rear axle. See figure 17.

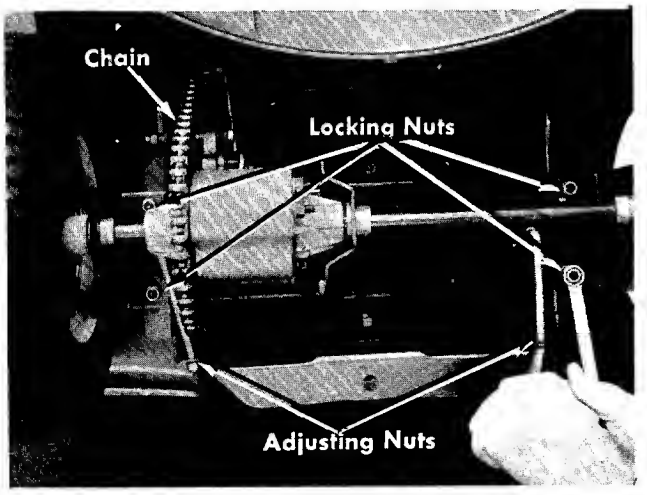



**FIGURE 16. CHAIN ADJUSTMENT**

# LUBRICATION

1. Front Wheel Bearings (4). Lubricate with SAE 30 oil once a season or after every 25 hours of operation. See figure 17.
2. King Pin Bearings (4). Lubricate with SAE 30 oil once a season or after every 25 hours of operation. See figure 17.
3. Steering Gears. Lubricate the two gears with automotive multi-purpose grease once a season. See figure 18.
4. Pivot Bolt. Lubricate with SAE 30 oil once a season. See figure 17.
5. Deck Wheel Bearings (4). Remove the axle bolt and lubricate with multi-purpose automotive grease once a season or after every 25 hours of operation. See figure 19.
6. Differential. Lubricated at the factory with 2 ounces of high temperature grease (450°F.). The grease should only be checked or replaced if the differential is disassembled for repair. See figure 20.
7. Transmission. Lubricated at the factory with 12 ounces of E.P. Lithium grease. The grease should only be checked or replaced if the transmission is disassembled for repair.

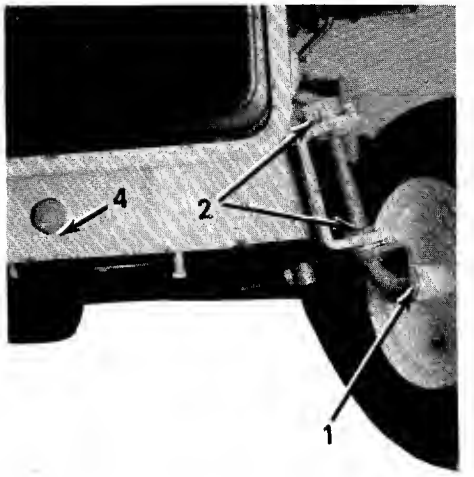



**FIGURE 17**

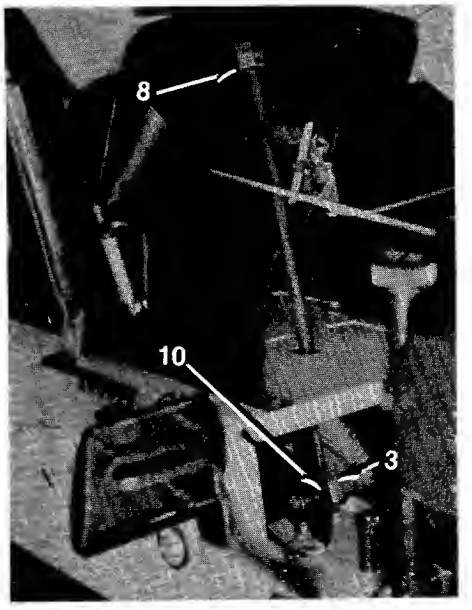



**FIGURE 18**

8. Steering Column Bearings (2). Oil once a season with SAE 30 oil. See figure 18.
9. Rear Axle Bearings (3). Requires no lubrication. See figure 20.
10. Steering Shaft Bearings (2). Requires no lubrication. See figure 18.
11. Chain. Remove and clean with kerosene. Lubricate with an oil soaked rag. See figure 20.

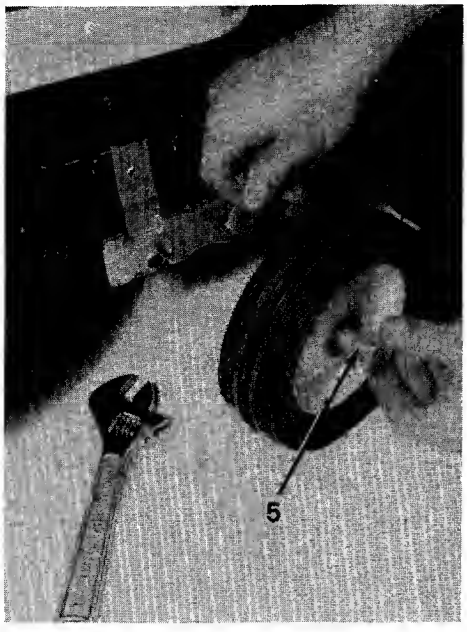



**FIGURE 19**

**WARNING**

Do not get oil on the sprocket or brake pads.

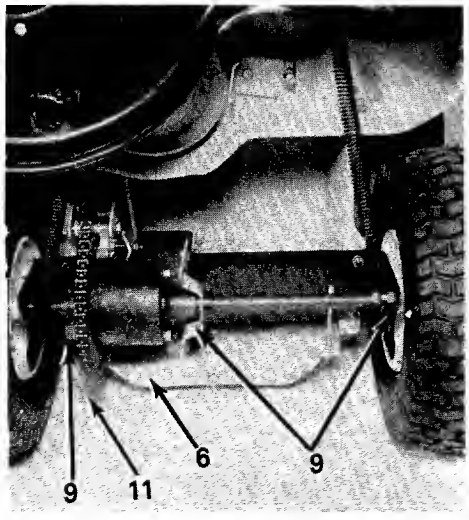



**FIGURE 20**

The following items have sealed bearings and require no further lubrication.

Blade Spindle Bearings
Tie Rod Ends
Idler Bearings

## BELTS REMOVAL AND REPLACEMENT

**WARNING**

Before up-ending vehicle for maintenance, position it on a hard level surface and ensure area is clear of children and pets.

Disconnect the spark plug wire and ground it against the engine.

To prevent gasoline from leaking from the gasoline tank, remove the cap, place a piece of plastic film over the neck of the tank and screw on the cap or drain tank.

1. Put the lift lever in the disengaged position.
2. Remove the belt keeper and shoulder bolt on the engine pulley. See figure 21.
3. Remove the blade belt from the engine pulley.
4. Put the lift lever in the engaged position.
5. Remove the two tension springs on the rear of the deck.
6. Remove the six pins holding the deck to the frame. See figure 22.
7. Lift off the deck and set it aside.

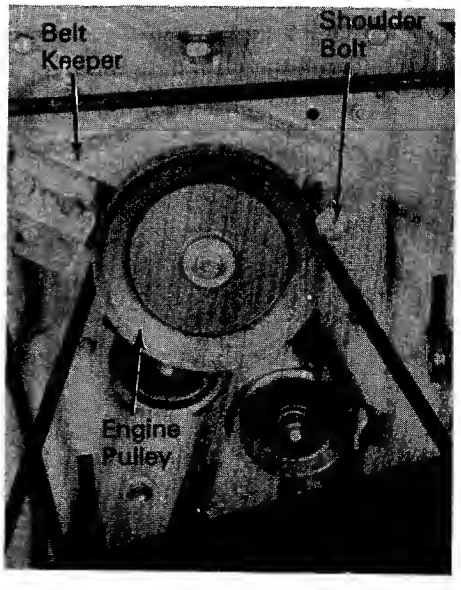



**FIGURE 21**

**BLADE BELT** See figure 23.

1. Take off both belt guards on the deck.
2. Remove and replace the belt with a new one.

**TRANSMISSION BELT** See figure 22.

1. Remove the engine belt guard from the engine pulley by removing the two front engine bolts.
2. Remove the two belt guards from the transmission pulley.
3. Remove the V-idler pulley.
4. Remove and replace the transmission pulley.

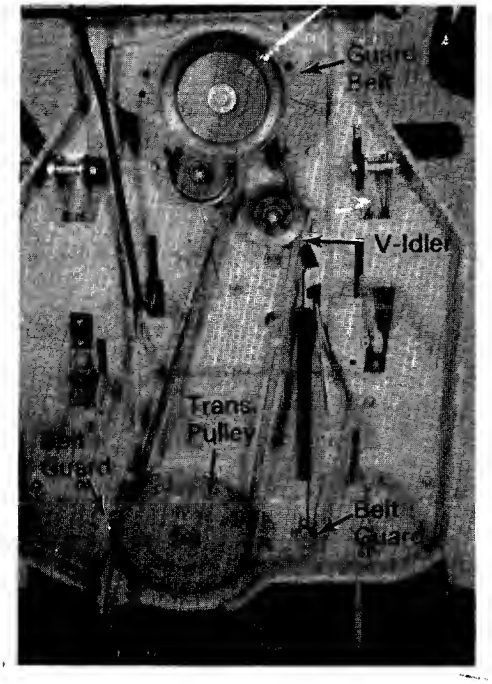



**FIGURE 22**

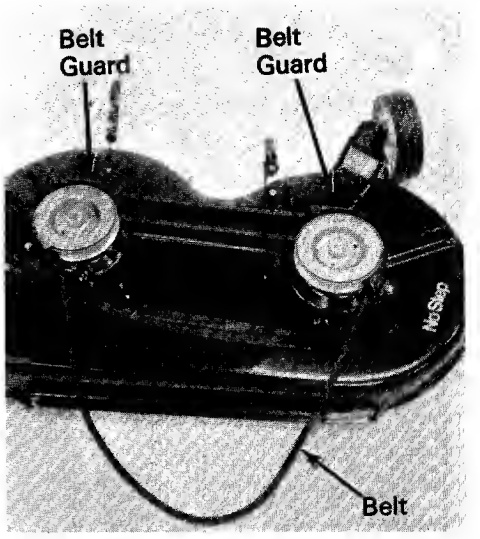



**FIGURE 23**

# TROUBLE SHOOTING CHART FOR RECOIL START MODELS

CAUTION: ALWAYS DISCONNECT SPARK PLUG BEFORE ATTEMPTING ANY REMEDY.

| TROUBLE | LOOK FOR | REMEDY |
|---|---|---|
| Engine fails to start. | Safety System | If the engine will not start be sure the clutch control is disengaged; blade controls disengaged, the throttle control is set and the key is turned on.<br>A. Disconnect the yellow wire from the engine. This comes from the ignition switch.<br>B. If the engine fails to start the problem is with the engine, not the safety system.<br>C. If the engine starts, the problem is with the safety system. Check the yellow wire for a ground.<br>D. Check the operation of the switch behind the recoil starter handle.<br>E. If the engine stops when the clutch or blade is engaged, the recoil handle is not pushed into the receptacle and twisted a quarter turn. |
| | Blocked fuel line or empty gas tank. | Clean fuel line; check fuel supply. Also check fuel shut-off valve. |
| | Defective spark plug. | Spark plug lead wire disconnected.<br>Faulty spark plug—spark should jump gap between control electrode and side electrode. If spark does not jump, replace spark plug.<br>NOTE: Use insulated pliers to hold the spark plug wire. |
| | Throttle setting. | Throttle control lever not in the starting position. |
| | Loose connections. | Spark plug wire loose. |
| Hard starting or loss of power. | Dirty air cleaner. | Remove air cleaner and clean as outlined in **Engine Manual.** |
| | Carburetor improperly adjusted. | Review paragraph **Carburetor Adjustment.** |
| Excessive vibration. | Bent or damaged blade spindle. | Stop engine immediately; tighten all bolts and make all necessary repairs. If vibration continues, have the unit serviced by a competent repairman. |
| Unit fails to discharge grass. | Discharge chute clogged. | Clean discharge chute and inside of deck. |
| | Foreign object lodged in deck. | Remove object from deck. See CAUTION following step 1 in paragraph **Operation.** |
| Engine overheats. | Obstructions in air passages. | Remove any obstruction from air passages in shroud. Grass and dirt in engine shroud. Clean cooling fins. |
| | Oil level. | Fill crankcase to proper oil level. |

# TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

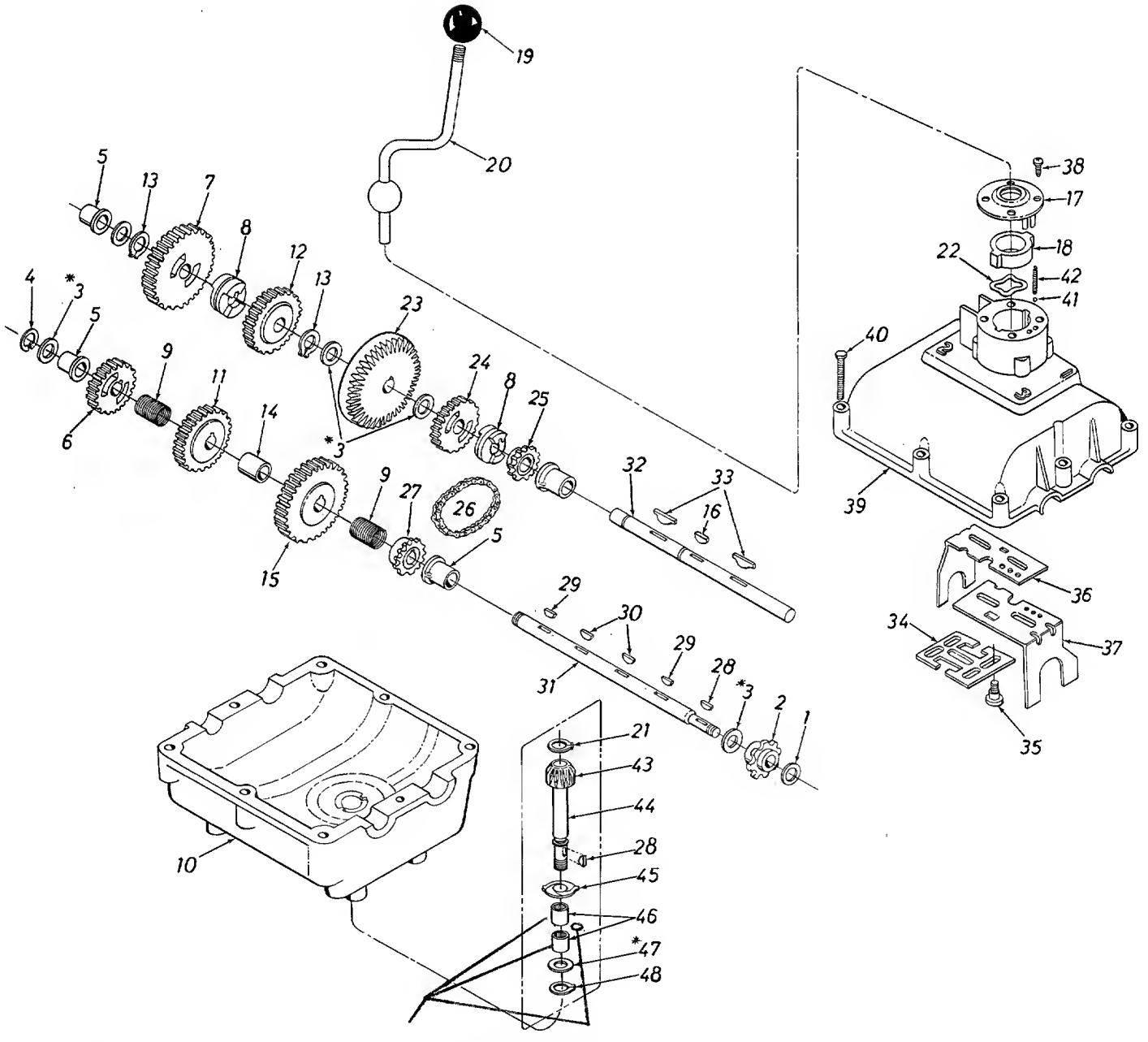
| TROUBLE | LOOK FOR | REMEDY |
|---|---|---|
| Engine fails to start. | Safety System | A. Check for a blown fuse in the wire leading from the positive terminal of the battery.<br><br>B. Before checking the safety system further, be sure the clutch control and the blade control are disengaged; only the starting system is being checked. Therefore remove the spark plug lead and ground it to prevent the engine from starting.<br><br>C. Attach a wire (minimum 18 gauge) to the positive terminal of the battery and touch the other end to the small terminal (coil primary) of the solenoid. If the engine cranks, the problem is in the safety system.<br><br>D. Check for continuity from the battery to the solenoid. NOTE: The positive terminal of the battery should have a large cable (#8 guage) and a small wire (#18 gauge) attached to it.<br><br>E. Check all wires and cable for tightness.<br><br>F. Use a #8 gauge wire and jump between the two large terminals of the solenoid. If the unit starts, replace the solenoid.<br><br>G. If the unit fails to start after following the above procedure the problem is probably in the starting motor of the engine. |
| | Blocked fuel line or empty gas tank. | Clean fuel line; check fuel supply. Also check fuel shut-off valve. |
| | Defective spark plug. | Spark plug lead wire disconnected.<br><br>Faulty spark plug—spark should jump gap between control electrode and side electrode. If spark does not jump, replace spark plug.<br><br>NOTE: Use insulated pliers to hold the spark plug wire. |
| | Throttle setting. | Throttle control lever not in the starting position. |
| | Loose connections | Spark plug wire loose. |
| Hard starting or loss of power. | Dirty air cleaner. | Remove air cleaner and clean as outlined in **Engine Manual.** |
| | Carburetor improperly adjusted. | Review paragraph **Carburetor Adjustment.** |
| Excessive vibration. | Bent or damaged blade spindle. | Stop engine immediately; tighten all bolts and make all necessary repairs. If vibration continues, have the unit serviced by a competent repairman. |
| Unit fails to discharge grass. | Discharge chute clogged. | Clean discharge chute and inside of deck. |
| | Foreign object lodged in deck. | Remove object from deck. See CAUTION following step 1 in paragraph **Operation.** |
| Engine overheats. | Obstructions in air passages. | Remove any obstruction from air passages in shroud. Grass and dirt in engine shroud. Clean cooling fins. |
| | Oil level. | Fill crankcase to proper oil level. |

# BELT TROUBLE SHOOTING CHART

| Failure | Probable Cause | Corrective Action |
|---|---|---|
| 1 Broken Belt | 1A Sudden stop or shock load to belt | 1A Inspect rider for cause such as foreign objects stuck in between deck and frame or belt path. Remove obstruction and inspect for damage. Replace belt per parts list in this manual. |
| | 1B Incorrect belt used | 1B Replace with proper belt only. See parts list in this manual. Roll belt onto pulley. **Do not** use screw driver to push or pry belt onto pulley. The sharp bend can damage internal cords. |
| | 1C Abrupt engagement | 1C Slower engagement required. |
| | 1D Defective or damaged belt | 1D Refer to 1B. |
| 2 Belt Shredds | 2A Belt guides or guards incorrectly adjusted | 2A Belt guides and guards should be adjusted to approximately 1/16 to 1/8 inch from belt when in the engaged position. |
| | 2B Pulleys not aligned | 2B Realign pulleys to be within approximately 1/16 inch of each other. Check with straight edge. Be sure fastening hardware is tight. |
| | 2C Bad pulley—rough, rusty chipped, bent, frozen bearing, etc. | 2C Replace as necessary. Adjust as per 2B. |
| 3 Belt Comes Off | 3A Belt stretched | 3A Adjust as necessary when applicable. Refer to 1B. |
| | 3B Broken or weak idler spring | 3B Replace. |

# 139-390A
# 139-395A

# ILLUSTRATED PARTS FOR TRANSMISSION 717-0416




FF FLANGE Bug.+-O-RING KIT

# FF 2571

ON SOME UNITS

# 139-390A
# 139-395A

## PARTS LIST FOR TRANSMISSION MODEL NO. 717-0416

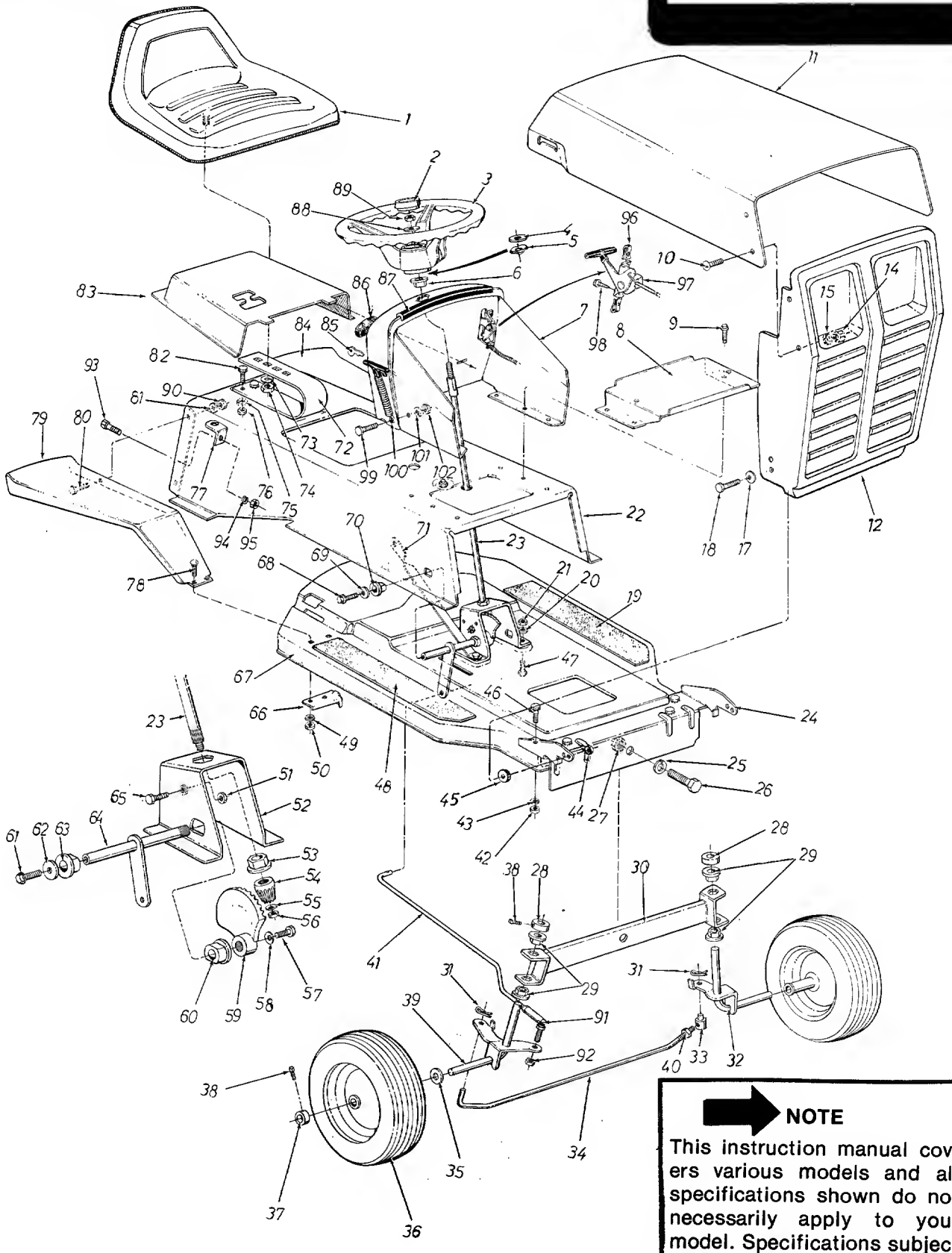
| REF. NO. | PART NO. | Qty. Req'd. | DESCRIPTION |
|---|---|---|---|
| 1 | FF-1300 | 1 | Ring, Retaining |
| 2 | FF-1084 | 1 | Sprocket, 8 T |
| 3 | FF-1068 | * | Washer, Plain (.040) |
| 3 | FF-1082 | * | Washer, Plain (.031) |
| 3 | FF-1145 | * | Washer, Plain (.060) |
| 3 | FF-1358 | * | Washer, Plain (.050) |
| 3 | FF-1423 | * | Washer, Plain (.025) |
| 3 | FF-1424 | * | Washer, Plain (.035) |
| 3 | FF-1425 | * | Washer, Plain (.045) |
| 3 | FF-1441 | * | Washer, Plain (.020) |
| 4 | FF-1106 | 1 | Ring, Retaining |
| 5 | FF-1101 | 4 | Bearing, Flange |
| 6 | FF-1072 | 1 | Gear, Spur 20T |
| 7 | FF-1444 | 1 | Gear, Spur, 30T |
| 8 | FF-1083 | 2 | Collar, Clutch |
| 9 | FF-1095 | 2 | Spring, Compression |
| 10 | FF-1064-A | 1 | Housing, Lower |
| 11 | FF-1076 | 1 | Gear, Spur, 25T |
| 12 | FF-1075 | 1 | Gear, Spur, 25T |
| 13 | FF-1099 | 2 | Ring, Retaining |
| 14 | FF-1325 | 1 | Spacer |
| 15 | FF-1078 | 1 | Gear, Spur, 30T |
| 16 | FF-1374 | 1 | Key, Wdr., No. 9 Alloy |
| 17 | FF-1670 | 1 | Cover, Nylon |
| 18 | FF-1091 | 1 | Insert, Nylon |
| 19 | FF-1318 | 1 | Knob, Shift |
| 20 | FF-2683 | 1 | Assembly, Lever, Shift |
| 21 | FF-1100 | 1 | Ring, Retaining |
| 22 | FF-1096 | 1 | Washer, Wave |
| 23 | FF-1085 | 1 | Gear, Bevel, 42T |
| 24 | FF-1071 | 1 | Gear, Spur, 20T |
| 25 | FF-1087 | 1 | Sprocket, 12T, Special |
| 26 | FF-1090 | 1 | Chain |
| 27 | FF-1104 | 1 | Sprocket, 12T, Special |
| 28 | FF-1371 | 2 | Key, Wdrf., No. 4 Alloy |
| 29 | FF-1369 | 2 | Key, Wdr., No. 3 Alloy |
| 30 | FF-1375 | 2 | Key, Wdrf., No. 61 Alloy |
| 31 | FF-1094 | 1 | Shaft, Output |
| 32 | FF-1443 | 1 | Shaft, Drive |
| 33 | FF-1086 | 2 | Key, Hi-Pro, Special |
| 34 | FF-1074 | 1 | Plate, Lock-out |
| 35 | FF-1073 | 4 | Screw, Shoulder |
| 36 | FF-1657 | 1 | Fork, Shifter, R.H. |
| 37 | FF-1070 | 1 | Fork, Shifter, L.H. |
| 38 | FF-1357 | 4 | Screw, No. 10-24 x 1/2 |
| 39 | FF-1065-J | 1 | Housing, Upper |
| 40 | FF-1360 | 8 | Bolt, Hx. Hd., 1/4-20 x 1-5/16 |
| 41 | FF-1037 | 2 | Ball, Detent |
| 42 | FF-1475 | 2 | Spring, Detent |
| 43 | FF-1105 | 1 | Pinion, Bevel, 16T |
| 44 | FF-1747 | 1 | Shaft, Input |
| 45 | FF-1499 | 1 | Washer, Thrust |
| 46 | FF-1102 | 2 | Bearing, Needle |
| 47 | FF-1430 | * | Washer, Plain (.040) |
| 47 | FF-1431 | * | Washer, Plain (.050) |
| 47 | FF-1760 | * | Washer, Plain (.015) |
| 48 | FF-1491 | 1 | Ring, Retaining |

*Indicates used in various combinations to maintain proper clearances.

# 139-390A
# 139-395A

IF YOU WRITE TO US ABOUT THIS ARTICLE OR IF YOU ORDER REPLACEMENT PARTS ALWAYS MENTION THIS MODEL & SERIAL NO

MODEL



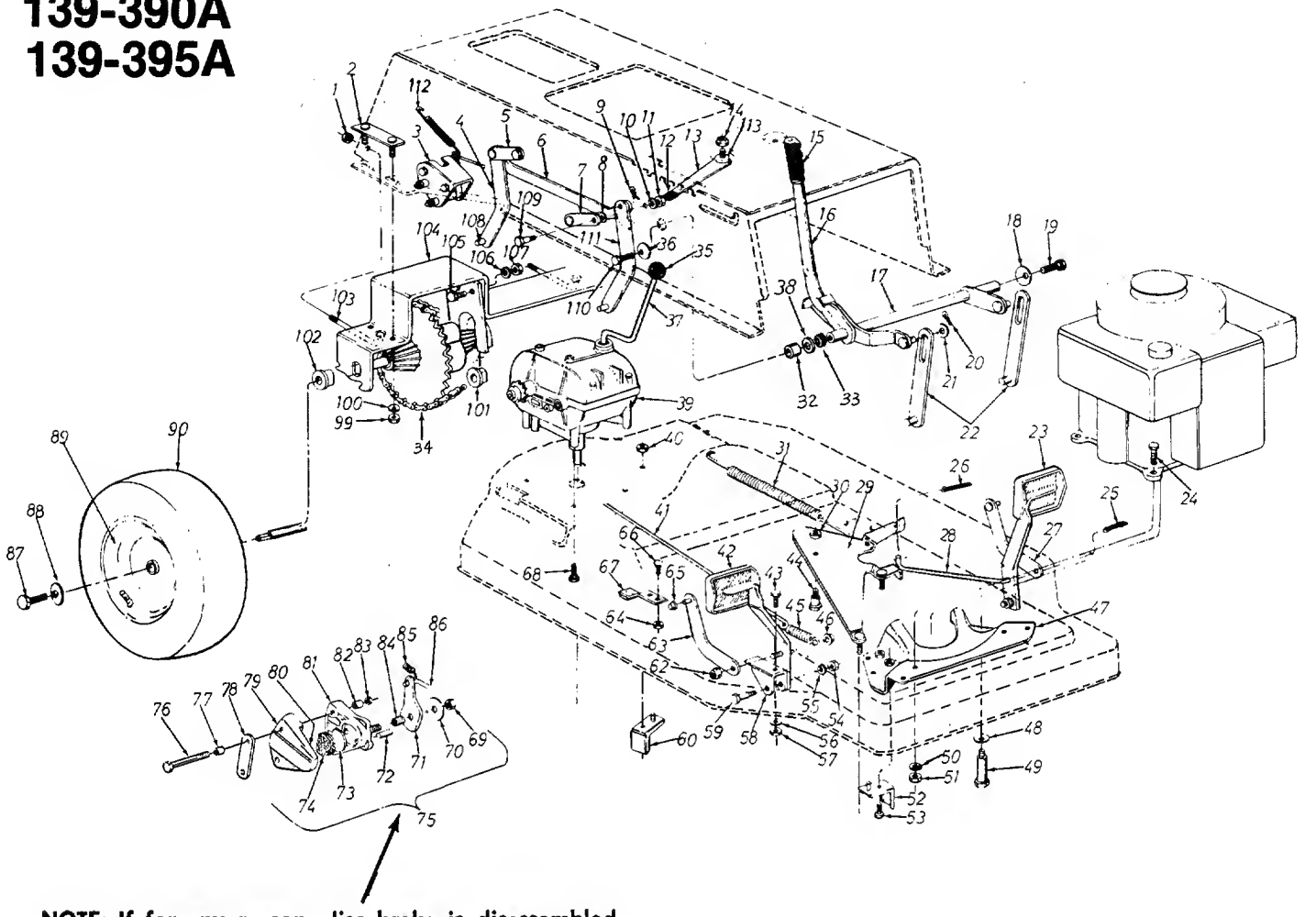
**NOTE**

This instruction manual covers various models and all specifications shown do not necessarily apply to your model. Specifications subject to change without notice or obligation.

## PARTS LIST FOR RIDING MOWER MODELS 139-390A AND 139-395A

| REF. NO. | PART NO. | COLOR CODE | DESCRIPTION | NEW PART |
|---|---|---|---|---|
| 1 | 757-0264 | | Seat Assembly | |
| 2 | 731-0220 | | Cap for Steering Wheel | |
| 3 | 731-0219 | | 12" Dia. Steering Wheel | |
| 4 | 736-0156 | | Fl-Wash. .635 I.D. x 1.120 O.D. | |
| 5 | 736-0174 | | Wave Wash. .66 I.D. x .88 O.D. | |
| 6 | 748-0227 | | Hex Flange Brg. .630 I.D. | |
| 7 | 12740 | | Dash Panel Ass'y.—Recoil (390A) | |
| | 12742 | | Dash Panel Ass'y.—Elect. (395A) | |
| 8 | 12747 | | Battery Bracket (395A) | |
| 9 | 710-0198 | | Hex Sems Scr. 5/16-18 x .75 Lg.* | |
| 10 | 710-0255 | | Truss Mach. Scr. ¼-20 x .75" Lg.* | |
| 11 | 11836 | —462 | Hood | |
| 12 | 13794 | —462 | Grille—Complete | N |
| 14 | 712-0287 | | Hex Nut ¼-20 Thd.* | |
| 15 | 736-0329 | | L-Wash. ¼" Scr.* | |
| 17 | 736-0253 | | Belleville Wash. .515 I.D. x 1.00" O.D. | |
| 18 | 738-0145 | | Shld. Scr. .498 Dia. x .835" Lg. | |
| 19 | 723-0305 | | Foot Mat—L.H. | |
| 20 | 736-0119 | | L-Wash. 5/16" Scr.* | |
| 21 | 712-0267 | | Hex Nut 5/16-18 Thd.* | |
| 22 | 13880 | —462 | Upper Frame | N |
| 23 | 738-0307 | | Steering Shaft | |
| 24 | 12746 | —462 | Front Pivot Bracket | |
| 25 | 736-0158 | | L-Wash. 5/8" Scr.* | |
| 26 | 710-0312 | | Hex Scr. 5/8-18 x 1.31—Special | |
| 27 | 712-0923 | | Hex Cent. Jam Nut 5/8-18 Thd. | |
| 28 | 711-0169 | | Collar for a 5/8" Dia. | |
| 29 | 748-0227 | | Hex Flange Brg. .630 I.D. | |
| 30 | 13274 | —462 | Pivot Bar Ass'y. | |
| 31 | 714-0115 | | Cotter Pin 1/8" Dia. x 1.00" Lg.* | |
| 32 | 12752 | —462 | Axle Ass'y.—Front—L.H. | |
| 33 | 711-0198 | | Ferrule | |
| 34 | 747-0144 | | Tie Rod | |
| 35 | 736-0156 | | Fl-Wash. .635 I.D. x 1.120 O.D. | |
| 36 | 734-0488 | | Front Wheel Ass'y.—Comp. 11.0 x 4.0 | |
| 37 | 711-0169 | | Collar 5/8" I.D. | |
| 38 | 710-0666 | | Sq. Hd. Set Scr. 5/16-18 x .38" Lg. | |
| 39 | 12755 | —462 | Axle Ass'y.—Front—R.H. | |
| 40 | 712-0711 | | Hex Jam Nut 3/8-24 Thd. | |
| 41 | 711-0625 | | Steering Rod | |
| 42 | 712-0267 | | Hex Nut 5/16-18 Thd.* | |
| 43 | 736-0119 | | L-Wash. 5/16" Scr.* | |
| 44 | 712-0375 | | Hex Cent. L-Nut 3/8-16 Thd. | |
| 45 | 735-0197 | | Rubber Wash. | N |
| 46 | 710-0198 | | Hex Sems Scr. 5/16-18 x .75" Lg.* | |
| 47 | 710-0198 | | Hex Sems Scr. 5/16-18 x .75" Lg.* | |
| 48 | 723-0304 | | Foot Mat—R.H. | |
| 49 | 736-0329 | | L-Wash. ¼" Scr.* | |
| 50 | 712-0287 | | Hex Nut ¼-20 Thd.* | |
| 51 | 712-0375 | | Hex Cent. L-Nut 3/8-16 Thd. | |
| 52 | 12850 | | Steering Gear Shaft Ass'y. | |
| 53 | 748-0228 | | Hex Flange Brg. .505 I.D. | |
| 54 | 748-0237 | | Pinion Gear | |
| 55 | 736-0242 | | Belleville Wash. | |
| 56 | 712-0237 | | Hex Cent. L-Nut 5/16-24 Thd. | |
| 57 | 710-0180 | | Hex Scr. 3/8-24 x .75" Lg.* | |
| 58 | 736-0105 | | Belleville Wash. | |
| 59 | 748-0236 | | Bevel Gear | |
| 60 | 741-0199 | | Plastic Flanged Brg. | |
| 61 | 710-0325 | | Hex Scr. 3/8-24 x .50" Lg.* | |
| 62 | 736-0105 | | Belleville Wash. | |
| 63 | 741-0199 | | Plastic Flanged Brg. | |
| 64 | 12749 | | Steering Arm Shaft Ass'y. | |
| 65 | 710-0670 | | Hex Scr. Nylon 3/8-16 x 1.25" Lg. | |
| 66 | 11055 | | Transmission Belt Guard | |
| 67 | 13879 | —462 | Lower Frame | N |
| 68 | 710-0325 | | Hex Scr. 3/8-24 x .50" Lg.* | |
| 69 | 736-0105 | | Belleville Wash. | |
| 70 | 741-0199 | | Plastic Flanged Brg. | |
| 71 | 12934 | | Transmission Support Brkt. | |
| 72 | 732-0256 | | Seat Spring 3.25 High | |
| 73 | 736-0921 | | L-Wash. ½" Scr.* | |
| 74 | 712-0206 | | Hex Nut ½-13 Thd.* | |
| 75 | 736-0119 | | L-Wash. 5/16" Scr.* | |
| 76 | 712-0267 | | Hex Nut 5/16-18 Thd.* | |
| 77 | 09963 | —462 | Hitch Bracket | |
| 78 | 710-0255 | | Truss Mach. Scr. ¼-20 x .75" Lg.* | |
| 79 | 11002 | —462 | Rear Fender | |
| 80 | 710-0195 | | Hex Scr. ¼-28 x 62" Lg.* | |
| 81 | 736-0329 | | L-Wash. ¼" Scr.* | |
| 82 | 710-0322 | | Hex Sems Scr. 5/16-18 x 1.00" Lg.* | |
| 83 | 13881 | —462 | Transmission Panel | |
| 84 | 11002 | —462 | Rear Fender | N |
| 85 | 725-0201 | | Ignition Key Only | |
| | 725-0464 | | Ignition Switch (Not Shown) (390A) | |
| | 725-0267 | | Ignition Switch (Not Shown) (395A) | |
| 86 | 11263 | | Plastic Handle (390A) | |
| 87 | 731-0144 | | Vinyl Strip | |
| 88 | 736-0242 | | Belleville Wash. .345 I.D. x .88 O.D. | |
| 89 | 712-0158 | | Hex Cent. L-Nut 5/16-18 Thd. | |
| 90 | 712-0138 | | Hex Nut ¼-28 Thd.* | |
| 91 | 723-0156 | | Ball Joint Ass'y. 3/8-24 Thd. | |
| 92 | 712-0116 | | Hex Ins. L-Nut 3/8-24 Thd. | |
| 93 | 710-0216 | | Hex Scr. 3/8-16 x .75" Lg.* | |
| 94 | 736-0119 | | L-Wash. 3/8" Scr.* | |
| 95 | 712-0798 | | Hex Nut 3/8-16 Thd.* | |
| 96 | 712-0344 | | Speed Nut #10 | |
| 97 | 746-0160 | | Throttle Control Ass'y. | |
| 98 | 710-0351 | | Truss Mach. B-Tap. Scr. #10 x .50" Lg. | |
| 99 | 710-0289 | | Hex Scr. ¼-20 x .50" Lg.* | |
| 100 | 723-0296 | | Hood Lock Ass'y. | |
| 101 | 736-0329 | | L-Wash. ¼" Scr.* | |
| 102 | 712-0287 | | Hex Nut ¼-20 Thd.* | |

# 139-390A
# 139-395A



**NOTE: If for any reason, disc brake is disassembled, be sure round end of push pins (Ref. No. 72) is toward the cam lever (Ref. No. 71).**

## PARTS LIST FOR RIDING MOWER MODELS 139-390A AND 139-395A

| REF. NO. | PART NO. | COLOR CODE | DESCRIPTION | NEW PART |
|---|---|---|---|---|
| 1 | 712-0429 | | Hex Ins. Locknut 5/16-18 Thd. | |
| 2 | 10360 | | Axle Bolt Plate Ass'y. | |
| 3 | 11011 | | Disc Brake Brkt. Ass'y. | |
| 4 | 11024 (11023 w/ pin) | | Deck Link | |
| 5 | 09721 | | Pivot Link Ass'y. | |
| 6 | 11014 | | Connecting Lift Brkt. | |
| 7 | 09721 | | Pivot Link Ass'y. | |
| 8 | 736-0192 | | Flat Wash. .531 I.D. x .93 O.D. | |
| 9 | 714-0101 | | Int. Cotter Pin ½" Dia. | |
| 10 | 736-0119 | | L-Wash. 5/16" Scr.* | |
| 11 | 712-0267 | | Hex Nut 5/16-18 Thd.* | |
| 12 | 11249 | | Ht. Adj. Knob | |
| 13 | 11027 | | Handle Stop Bracket Ass'y. | |
| 14 | 712-0429 | | Hex Ins. L-Nut 5/16-18 Thd. | |
| 15 | 08118 | | Grip Finger—Black | |
| 16 | 749-0212 | | Lift Handle—R.H. | |
| 17 | 13630 | | Lift Handle Brkt. Ass'y. | |
| 18 | 736-0219 | | Belleville Wash. .40 I.D. x 1.13 O.D. | |
| 19 | 710-0201 | | Hex Hd. Cap Scr. 3/8-16 x .62" Lg.* | |
| 20 | 714-0115 | | Cotter Pin 1/8" Dia. x 1.00" Lg.* | |
| 21 | 736-0192 | | Flat Wash. .531 I.D. x .93 O.D. | |
| 22 | 13851 | | Lockout Link Ass'y. | N |
| 23 | 11037 | | Clutch Pedal Ass'y. | |
| | 12379 | | Clutch Pedal Pad | |
| 24 | 710-0442 | | Hex Hd. Cap Scr. 5/16-18 x 1.50" Lg.* | |
| 25 | 714-0115 | | Cotter Pin | |
| 26 | 714-0115 | | Cotter Pin | |
| 27 | 11057 | | Parking Brake Lever Ass'y.—L.H. | |
| 28 | 11061 | | Clutch Rod | |
| 29 | 12446 | | Idler Brkt. Ass'y. | |
| 30 | 712-0116 | | Hex Ins. L-Nut 3/8-24 Thd. | |
| 31 | 732-0191 | | Sprg. (Idler) .75 O.D. x 11.0" Lg. | |
| 32 | 748-0273 | | Spacer .632 I.D. x .88 O.D. | N |

## PARTS LIST FOR RIDING MOWER MODELS 139-390A AND 139-395A

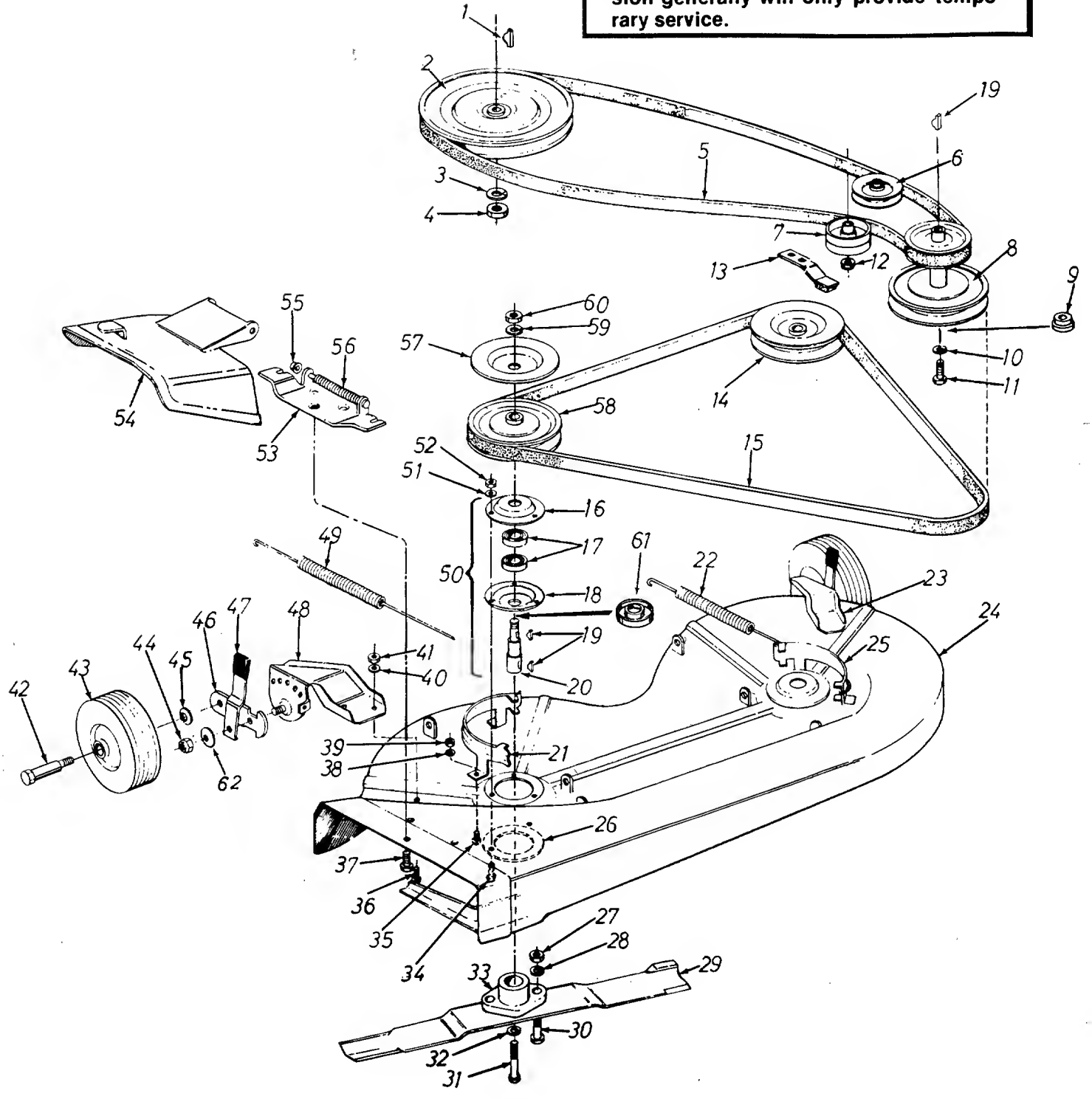
| REF. NO. | PART NO. | COLOR CODE | DESCRIPTION | NEW PART |
|---|---|---|---|---|
| 33 | 735-0195 | | Rubber Wash. | N |
| 34 | 713-0104 | | #41 Chain ½ Pitch x 65 Links | |
| | 713-0723 | | Master Link | |
| 35 | 720-0165 | | Ball Knob | |
| 36 | 736-0133 | | Fl-Wash. .400 I.D. x 1.25" O.D. | |
| 37 | 747-0172 | | Shift Lever | |
| 38 | 736-0237 | | Fl-Wash. | |
| 39 | 717-0416 | | Three Speed Trans.—Comp. | N |
| 40 | 712-0267 | | Hex Nut 5/16-18 Thd.* | |
| 41 | 747-0107 | | Brake Rod .25 Dia. x 24.12" Lg. | |
| 42 | 11036 | | Brake Pedal Ass'y. | |
| | 10614 | | Brake Pedal Pad | |
| 43 | 710-0259 | | Hex Sems Scr. 5/16-18 x .62" Lg.* | |
| 44 | 738-0140 | | Shld. Scr. .431 Dia. x .18" Lg. | |
| 45 | 732-0245 | | Brake Spring | |
| 46 | 726-0100 | | Push Nut 3/8" Dia. Rod | |
| 47 | 12654 | | Engine Belt Guard Ass'y. | |
| 48 | 736-0242 | | Bell. Wash. | |
| 49 | 738-0215 | | Shld. Bolt 3.60" Lg. | |
| 50 | 736-0119 | | L-Wash. 5/16" Scr.* | |
| 51 | 712-0267 | | Hex Nut 5/16-18 Thd.* | |
| 52 | 12160 | | Belt Keeper Ass'y. | |
| 53 | 710-0259 | | Hex Sems Scr. 5/16-18 x .62" Lg.* | |
| 54 | 710-0538 | | Hex Hd. Cap Scr. 5/16-18 x .62 Special | |
| 55 | 736-0242 | | Bell. Wash. .345 I.D. x .88 O.D. | |
| 56 | 736-0119 | | L-Wash. 5/16" Scr.* | |
| 57 | 712-0267 | | Hex Nut 5/16-18 Thd.* | |
| 58 | 11039 | | Pedal "U" Brkt. Ass'y. | |
| 59 | 738-0213 | | Shld. Bolt .498 Dia. x 1.45 | |
| 60 | 10426 | | Belt Keeper Ass'y. | |
| 62 | 712-0429 | | Hex Ins. L-Nut 5/16-18 Thd. | |
| 63 | 11056 | | Parking Brake Lever Ass'y. R.H. | |
| 64 | 712-0287 | | Hex Nut ¼-20 Thd. | |
| 65 | 726-0121 | | Push Cap .25 Dia. | |
| 66 | 710-0134 | | Carriage Bolt ¼-20 x.62" Lg.* | |
| 67 | 761-0147 | | Blade Brake Ass'y. | |
| 68 | 710-0198 | | Hex Sems Scr. 5/16-18 x .75" Lg.* | |
| 69 | HH-02-03631 | | Hex Locknut | |
| 70 | HH-03-03032 | | Washer | |
| 71 | HH-18-03493 | | Cam Lever | |
| 72 | HH-05-03034 | | Push Pin | |
| 73 | HH-03-03303 | | Disc Backup | |
| 74 | HH-15-02124 | | Friction Pad 1.110" Dia. x .472 Thk. | |
| 75 | 761-0130 | | Disc Brake Ass'y.—Comp. | |
| 76 | 710-0176 | | Hex Hd. Cap Scr. 5/16-18 x 2.75" Lg. | |
| 77 | 761-0133 | | Spacer for Disc Brake .322 I.D. x .38 | |
| 78 | 11010 | | Brake Plate | |
| 79 | HH-12-03293 | | Casting Carrier Side | |
| 80 | HH-15-03149 | | Friction Pad 1.110" Dia. x .245 Thk. | |
| 81 | HH-12-03292 | | Casting Cam Side | |
| 82 | 761-0133 | | Spacer for Disc Brake .322 I.D. x .38 | |
| 83 | 712-0158 | | Hex Cent. L-Nut 5/16-18 Thd. | |
| 84 | HH-06-03031 | | Spring | |
| 85 | 732-0157 | | Sprg. .380 O.D. x 3.25 (Brake Return) | |
| 86 | 747-0107 | | Brake Rod .25 Dia. x 24.12" Lg. | |
| 87 | 710-0627 | | Hex Scr. w/Lock 5/16-24 x .75 | |
| 88 | 736-0242 | | Bell. Wash. .345 I.D. x .88 O.D. | |
| 89 | 734-0521 | | Rear Wheel Rim Ass'y. Less Tire | |
| 90 | 734-0427 | | Rear Wheel Tire Only 15.0 x 6.0 | |
| | 734-0524 | | Rear Wheel Ass'y. w/Tire | |
| 99 | 712-0267 | | Hex Nut 5/16-18 Thd.* | |
| 100 | 736-0119 | | L-Wash. 5/16" Scr.* | |
| 101 | 748-0151 | | Flange Brg. w/Flats .753" I.D. | |
| 102 | 748-0151 | | Flange Brg. w/Flats .753" I.D. | |
| 103 | 710-0437 | | Chain Adj. Link 5/16-18 Thd. | |
| 104 | 11009 | | Rear Axle Brkt. | |
| 105 | 710-0198 | | Hex Sems Scr. 5/16-18 x .75" Lg.* | |
| 106 | 736-0119 | | L-Wash. 5/16" Scr.* | |
| 107 | 712-0267 | | Hex Nut 5/16-18 Thd.* | |
| 108 | 711-0332 | | Left Brkt. Pin | |
| 109 | 738-0140 | | Shld. Scr. .431 Dia. x .18" Lg. | |
| 110 | 710-0201 | | Hex Hd. Cap Scr. 3/8-16 x .62" Lg.* | |
| 111 | 11023 | | Deck Link Ass'y. (3 Req'd.) | |
| 112 | 732-0157 | | Sprg. .380 O.D. x 3.25 (Brake Return) | |
| 113 | 735-0126 | | Rubber Wash. .33 I.D. x .87 O.D. | |

*For faster service, obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on the parts list.

# 139-390A
# 139-395A

**IMPORTANT**

**Belts listed by Part Number are of special construction and should be used when replacement is necessary. The dimensions and description given are for general reference only and belts purchased by description and dimension generally will only provide temporary service.**



## PARTS LIST FOR RIDING MOWER MODELS 139-390A AND 139-395A

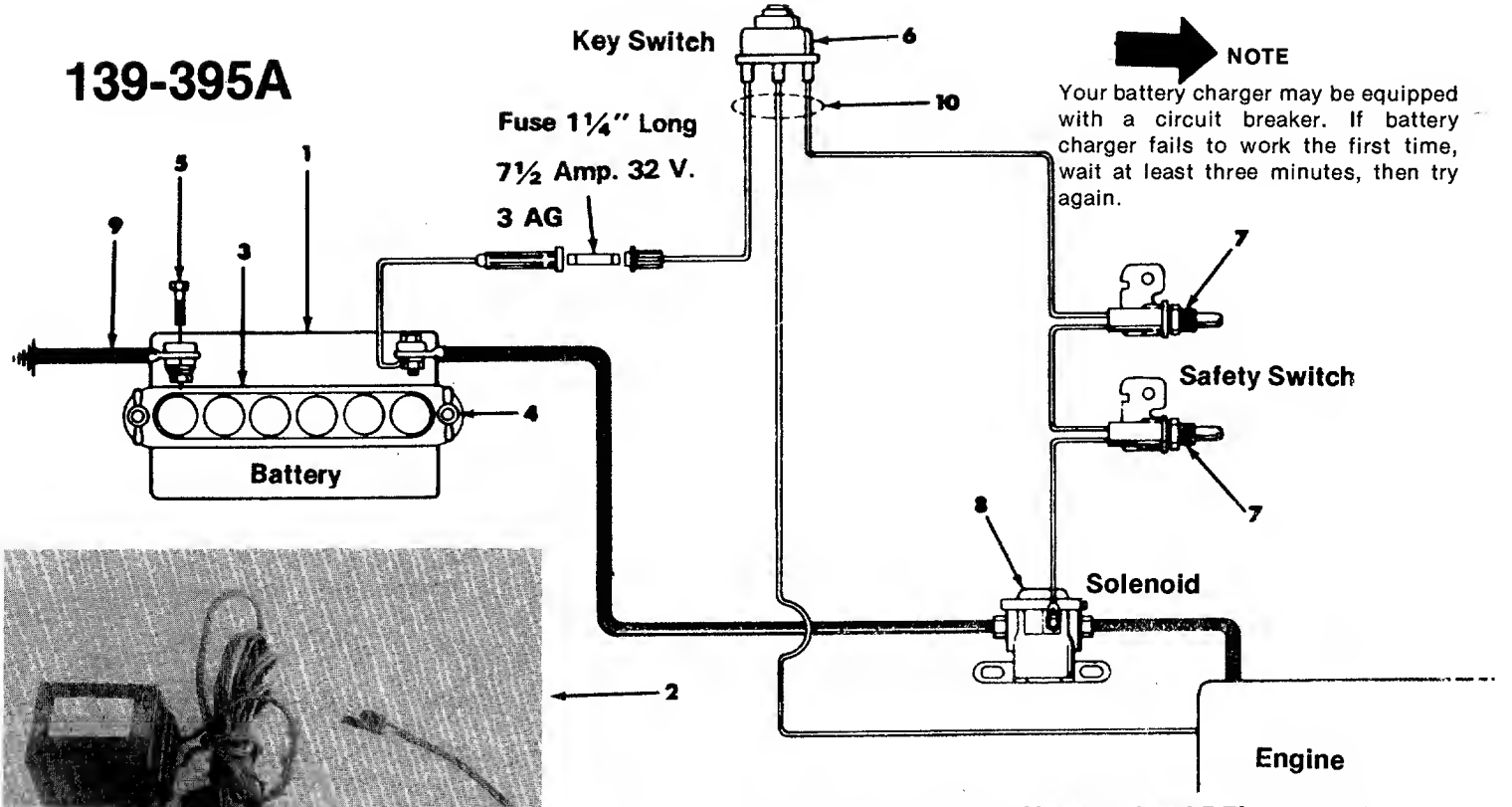
| REF. NO. | PART NO. | CODE | DESCRIPTION | NEW PART |
|---|---|---|---|---|
| 1 | 714-0129 | | #4 Hi-Pro Key 3/32 x 5/8" Dia. | |
| 2 | 756-0174 | | Transmission Split Pulley .50 I.D. | |
| 3 | 736-0921 | | L-Wash. ½" Scr.* | |
| 4 | 712-0922 | | Hex Jam Nut ½-20 Thd. | |
| 5 | 754-0198 | | "V" Belt ½ x 62" Lg. (Drive Belt) | |
| 6 | 756-0116 | | "V" Idler 3.06 O.D. | |
| 7 | 756-0217 | | "P" Flat Idler 2.75 O.D. | |
| 8 | 756-0246 | | Two Step Engine Pulley | |
| 9 | 711-0572 | | Step Washer for Engine Pulley | |
| 10 | 736-0217 | | L-Wash. 3/8" Scr.* | |
| 11 | 710-0151 | | Hex Hd. Cap Scr. 3/8-24 x 2.00" Lg.* | |
| 12 | 712-0116 | | Hex Inserted L-Nut 3/8-24 Thd. | |
| 13 | 761-0147 | | Blade Brake Assembly | |
| 14 | 756-0251 | | Deck Pulley 4.75 O.D. (2 Req'd.) | |
| 15 | 754-0167 | | "V" Belt 21/32 x 64" Lg. (Blade Belt) | |
| 16 | 08253 | | Housing—Bearing | |
| 17 | 741-0919 | | Ball Brg. .787 I.D. x 1.85 O.D. | |
| 18 | 08253 | | Housing—Bearing | |
| 19 | 714-0365 | | #6 Hi-Pro Key 5/32 x 5/8" Dia. | |
| 20 | 711-0255 | | Blade Spindle | |
| 21 | 12673 | | Belt Guard R.H.—Deck | |
| 22 | 732-0307 | | Deck Spring | |
| 23 | 11237 | | Wheel Bracket Ass'y.—L.H. | |
| 24 | 12670 | | 30 In. Deck Assembly | |
| 25 | 12672 | | Belt Guard L.H.—Deck | |
| 26 | 09164 | | Deck Reinforcement Plate | |
| 27 | 712-0123 | | Hex Nut 5/16-24 Thd.* | |
| 28 | 736-0119 | | L-Wash. 5/16" Scr.* | |
| 29 | 742-0118 | | 15 In. Blade (2 Req'd.) | |
| 30 | 710-0117 | | Hex Hd. Cap Scr. 5/16-24 x 1.00" H.T. | |
| 31 | 710-0459 | | Hex Hd. Cap Scr. 3/8-24 x 1.50" H.T. | |
| 32 | 736-0217 | | L-Wash. 3/8" Scr. H.D. | |
| 33 | 10769 | | Blade Adapter Kit | |
| 34 | 710-0322 | | Hex Sems Cap Scr. 5/16-18 x 1.00" Lg.* (3 Req'd.) | |
| 35 | 710-0289 | | Hex Hd. Cap Scr. ¼-20 x .50" Lg.* | |
| 36 | 710-0289 | | Hex Hd. Cap Scr. ¼-20 x .50" Lg.* | |
| 37 | 710-0195 | | Hex Hd. Cap Scr. ¼-28 x .62" Lg. (3 Req'd.) | |
| 38 | 736-0329 | | L-Wash. ¼" Scr.* | |
| 39 | 712-0287 | | Hex Nut ¼-20 Thd.* | |
| 40 | 736-0329 | | L-Wash. ¼" Scr.* | |
| 41 | 712-0287 | | Hex Nut ¼-20 Thd.* | |
| 42 | 738-0119 | | Axle Bolt .625 Dia. x 1.75 | |
| 43 | 734-0831 | | Wheel Ass'y.—Comp. 6.0" Dia. | |
| 44 | 712-0116 | | Hex Inserted L-Nut 3/8-24 Thd. | |
| 45 | 736-0105 | | Belleville Wash. .345 I.D. x .88 O.D. | |
| 46 | 10937 | | Wheel Pivot Bar | |
| 47 | 10949 | | Spring Lever Ass'y. with Knob | |
| 48 | 11236 | | Wheel Brkt Ass'y. R.H. | |
| 49 | 732-0307 | | Deck Spring | |
| 50 | 09321 | | Blade Spindle Ass'y.—Comp. | |
| 51 | 736-0119 | | L-Wash. 5/16" Scr.* | |
| 52 | 712-0267 | | Hex Nut 5/16-18 Thd. | |
| 53 | 11399 | | Adapter Plate Ass'y. | |
| 54 | 11633 | | Chute Cover Ass'y. | |
| 55 | 726-0106 | | Push Nut ¼" Rod | |
| 56 | 732-0261 | | Torsion Spring | |
| 57 | 09322 | | Blade Brake—Disc | |
| 58 | 756-0251 | | Deck Pulley 4.75 O.D. (2 Req'd.) | |
| 59 | 736-0158 | | L-Wash. 5/8" Scr.* | |
| 60 | 712-0242 | | Hex Jam Nut 5/8-11 Thd. | |
| 61 | 13703 | | Bearing Shield | |
| 62 | 736-0219 | | Bell. Wash. | |

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

(462—Red Flake) When ordering parts if color or finish is important, use color code shown at left. (e.g. Red Flake Finish—11001 (462).)

The engine is not under warranty by the mower manufacturer. If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines — Gasoline."

# 139-395A

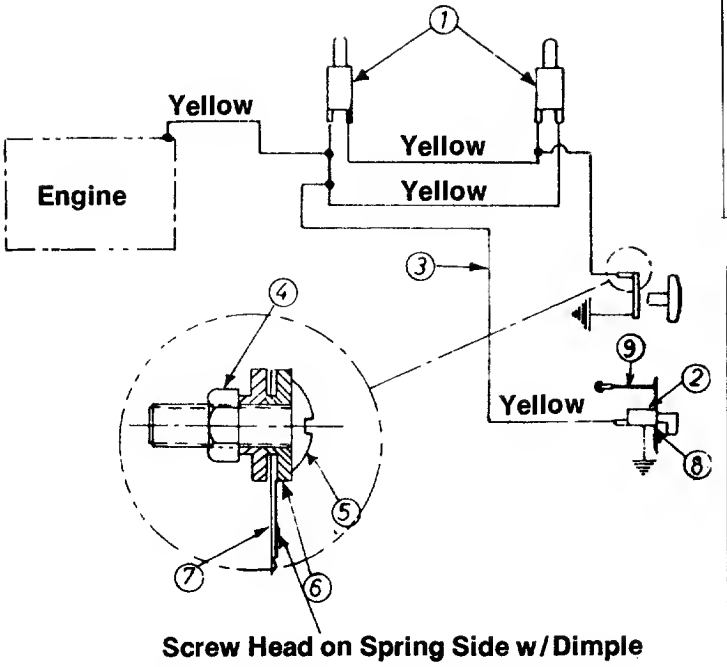



**NOTE**

Your battery charger may be equipped with a circuit breaker. If battery charger fails to work the first time, wait at least three minutes, then try again.




# 139-390A




Screw Head on Spring Side w/Dimple

## PARTS LIST FOR SCHEMATIC MODEL 139-395A

| REF. NO. | PART NO. | COLOR CODE | DESCRIPTION | NEW PART |
|---|---|---|---|---|
| 1 | 725-0117 | | Battery | |
| 2 | 725-0578 | | Battery Charger | N |
| | 725-0579 | | Charger Clip Adapter Wire | N |
| 3 | 08821 | | Battery Hold Down | |
| 4 | 711-0222 | | Hold Down Rods | |
| | 736-0329 | | Lockwasher ¼"* | |
| | 712-0113 | | Wing Nuts ¼-20 Thd.* | |
| 5 | 710-0252 | | Hex Hd. Cap Scr. ¼-20 x .75 Lg.* | |
| | 736-0329 | | Lockwasher ¼"* | |
| | 712-0287 | | Hex Nut ¼-20 Thd.* | |
| 6 | 725-0267 | | Key Switch | |
| | 725-0201 | | Key | |
| 7 | 725-0268 | | Safety Switch | |
| 8 | 725-0530 | | Solenoid | |
| 9 | 725-0150 | | Ground Wire | |
| 10 | 725-0489 | | Wire Harness | |
| 11 | 725-0221 | | Electric Wire | |
| 12 | 725-0297 | | Electric Wire | |

## PARTS LIST FOR SCHEMATIC MODEL 139-390A

| REF. NO. | PART NO. | COLOR CODE | DESCRIPTION | NEW PART |
|---|---|---|---|---|
| 1 | 725-0269 | | Safety Switch—Red (2 Req'd.) | |
| 2 | 725-0464 | | Magneto Ignition Switch w/Nut | |
| | 725-0128 | | Ignition Key | |
| 3 | 725-0272 | | Wire Harness | |
| 4 | 712-0121 | | Hex Nut #10-24 | |
| 5 | 710-0425 | | Truss Mach. Scr. #10-24 x .62 | |
| 6 | 736-0338 | | Fiber Washer (2 Req'd.) | |
| 7 | 732-0257 | | Switch Spring | |
| 8 | 736-0225 | | Internal Lockwasher 5/8 I.D. | |
| 9 | 725-0297 | | Ground Wire | |

# 139-390A
# 139-395A

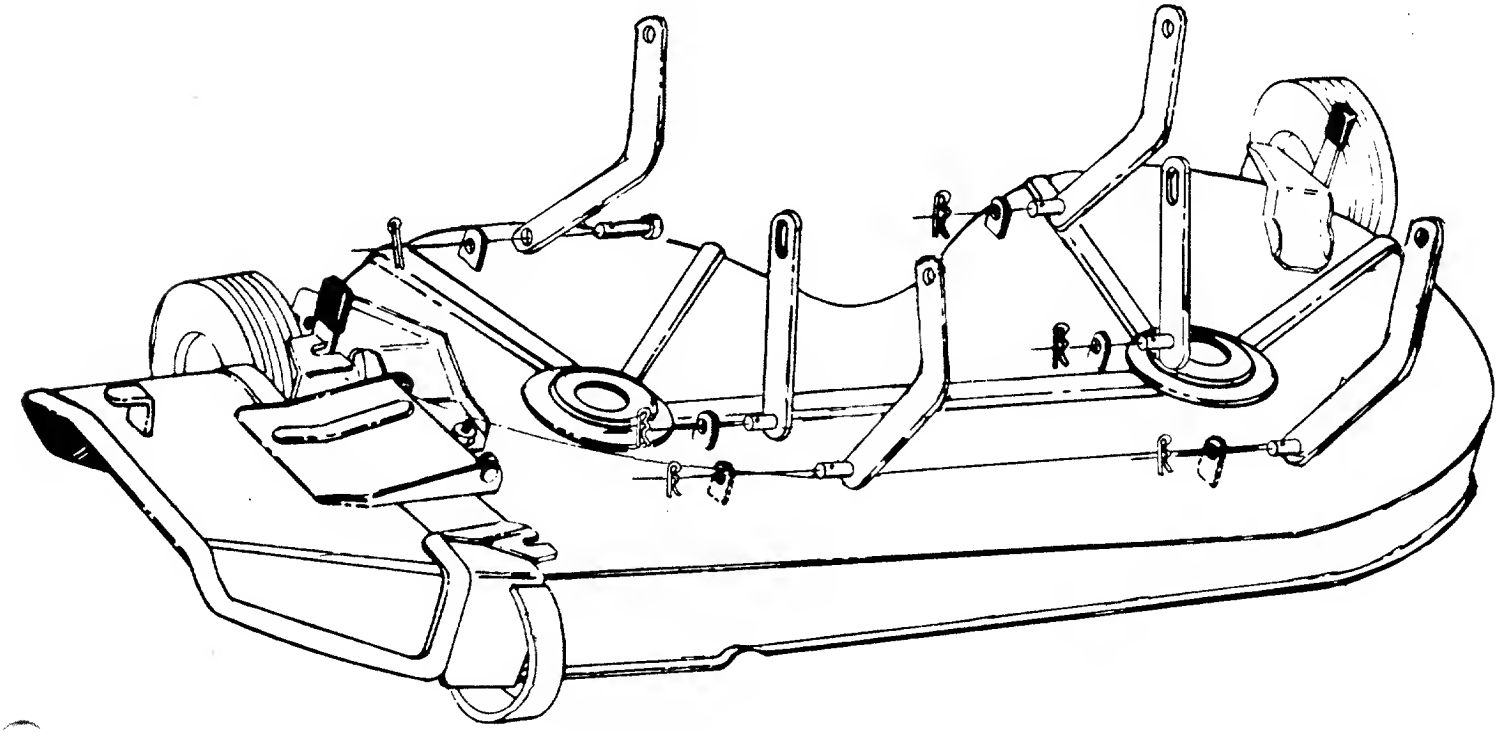
## WHEEL CHART

| FRONT WHEEL | | REAR WHEEL | |
|---|---|---|---|
| PART NO. | DESCRIPTION | PART NO. | DESCRIPTION |
| 734-0488 | Wheel Ass'y. Comp. 11.0 x 4.0 | 734-0524 | Wheel Ass'y. Comp. 15.00 x 6.00 |
| 748-0184 | Flange Brg. w/Flats .630" I.D. | 734-0521 | Rim Ass'y. with Hub |
| | | 734-0427 | Tire Only Tubeless 15.00 x 6.00 |
| | | 734-0255 | Air Valve |
| | | **741-0199** | Bearing—Rear Wheel |

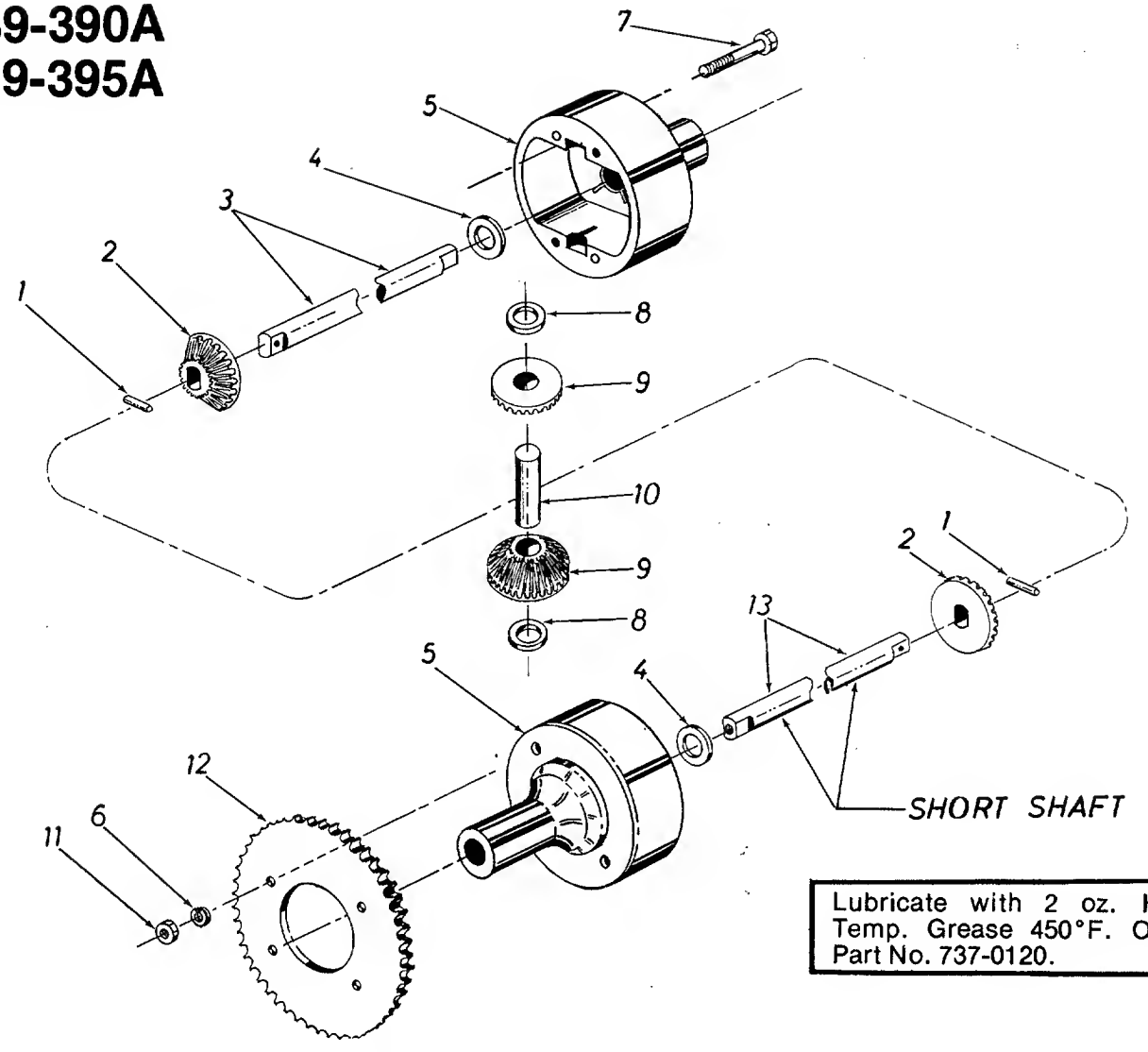
# DECK LINKAGE

**NOTE**

Refer to illustration below for proper deck link hook-up. If the deck is removed for any reason use the illustration below for correct assembly.



# 139-390A
# 139-395A




## PARTS LIST FOR DIFFERENTIAL ASSEMBLY 717-0326

| REF. NO. | PART NO. | Qty. Req'd. | DESCRIPTION | NEW PART |
|---|---|---|---|---|
| 1 | 715-0247 | 2 | Spring Pin Spir. 3/16" Dia. x 1.00" Lg. | |
| 2 | 748-0185 | 2 | Gear—Double "O" Hole | |
| 3 | 738-0302 | 1 | Shaft—Long 15.11" Lg. | |
| 4 | 736-0188 | 2 | Fl-Wash. .760 I.D. x 1.49 O.D. | |
| 5 | 717-0341 | 2 | Housing Half | |
| 6 | 736-0119 | 2 | L-Wash. 5/16" Scr.* | |
| 7 | 710-0363 | 2 | Hex Scr. 5/16-24 x 4.00" Lg.* | |
| 8 | 736-0187 | 2 | Fl-Wash. .640 I.D. x 1.24 O.D. | |
| 9 | 748-0158 | 2 | Gear—Round Hole | |
| 10 | 711-0276 | 1 | Drive Pin | |
| 11 | 712-0237 | 2 | Hex Cent. L-Nut 5/16-24 Thd. | |
| 12 | 09054 | 1 | Sprocket—40 Tooth | |
| 13 | 738-0303 | 1 | Shaft—Short 7.58" Lg. | |

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

# PARTS INFORMATION

**POWER EQUIPMENT PARTS AND SERVICE**

Parts and service for all MTD manufactured power equipment are available through the authorized service firms listed below. All orders should specify the model number of your unit, parts number, description of parts and the quantity of each part required.

**ALABAMA** — **BIRMINGHAM**
Auto Electric & Carburetor Co. . . 2625 4th Ave. S. . . . . 35233
**ARKANSAS** — **NORTH LITTLE ROCK**
Sutton's Lawn Mower Shop . . . . Rt. 4 Box 368 . . . . . 72117
**FORT SMITH**
Mity Mite Motors, Inc. . . . . 2515 Towson Ave. . . . . 72901
**CALIFORNIA** — **PORTERVILLE**
Billlous . . . . . 75 North D Street . . . . . 93257
**SAN BERNARDINO**
Lawn Mower Supply Co. . . . . 25608 E. Baseline . . . . 92410
**SAN FRANCISCO**
J.W. Jewett Co. . . . . 981 Folsom St. . . . . 94107
**SACRAMENTO**
Luttig & Severson . . . . . 2030 28th St. . . . . 95818
**COLORADO** — **DENVER**
South Denver Lawn Equip. . . . . 527 West Evans . . . . . 80223
**FLORIDA** — **JACKSONVILLE**
Radco Distributors . . . . . 2403 Market St. . . . . 32206
**CORAL GABLES**
Moz-All of Florida, Inc. . . . . 365 Greco Ave. . . . . 33146
**GEORGIA** — **EAST POINT**
East Point Cycle & Key . . . . . 2834 Church St. . . . . 30344
**ILLINOIS** — **LYONS**
Keen Edge Co. . . . . 8615 Ogden Ave. . . . . 60534
**INDIANA** — **ELKHART**
Parts & Sales Inc. . . . . 2101 Industrial Pkwy. . 46514
**IOWA** — **DUBUQUE**
Power Lawn & Garden Equip. . . . 2551 J.F. Kennedy . . . 52001
**LOUISIANA** — **NEW ORLEANS**
Suhren Engine Co. . . . . 8330 Earhart Blvd. . . . 70118
**MARYLAND** — **TAKOMA PARK**
Center Supply Co. . . . . 6867 New Hampshire Ave. . 20012
**MASSACHUSETTS** — **SPRINGFIELD**
Morton B. Collins Co. . . . . 300 Birnie Ave. . . . . 01107
**MICHIGAN** — **MOUNT CLEMENS**
Power Equipment Dist. . . . . 36463 South Gratiot . . 48043
**LANSING**
Lorenz Service Co. . . . . 2500 S. Pennsylvania . 48900
**MINNESOTA** — **MINNETONKA**
Hance Distributing Inc. . . . . 11212 Wayzata Blvd. . . 55343
**ST. PAUL**
Power Tools Inc. . . . . 3771 Sibley Memorial Hwy. . 55122
**MISSISSIPPI** — **BILOXI**
Biloxi Sales & Service, Inc. . . . . 506 Calllavet St. . . . . 39533
**MISSOURI** — **KANSAS CITY**
Automotive Equip. Service . . . . . 3117 Holmes St. . . . . 64109
**ST. JOSEPH**
Ross-Frazier Supply Co. . . . . 8th and Monteray . . . . 64503
**ST. LOUIS**
Henzler, Inc. . . . . 2015 Lemay Ferry Rd. . 63125
**NEW JERSEY** — **BELLMAWR**
Lawnmower Parts Inc. . . . . 717 Creek Rd., P.O. Box 7 . 08030
**RUTHERFORD**
Feld Distributor . . . . . 28 Glen Rd. . . . . 07070
**NEW YORK** — **CARTHAGE**
Gamble Dist., Inc. . . . . West End Ave. . . . . 13619
**SYRACUSE**
GTP Leisure Products Inc. . . . . 420 Marcellus St. . . . . 13204
**NORTH CAROLINA** — **GREENSBORO**
Dixie Sales Company . . . . . 327 Battleground Ave. 27402
**GOLDSBORO**
Smith Hardware Co. . . . . 515 N. George St. . . . . 27530
**OHIO** — **WADSWORTH**
National Central . . . . . 687 Seville Rd. . . . . 44281
**CLEVELAND**
Bleckrie, Inc. . . . . 7900 Lorain Ave. . . . . 44102
**CARROLL**
Stebe's Mid-State Mower Supply. Box 366-71 High St. . . 43112
**YOUNGSTOWN**
Burton Supply Co. . . . . 1301 Logan Ave. Box 929 . 44501
**OKLAHOMA** — **MUSKOGEE**
Victory Motors, Inc. . . . . 605 S. Cherokee . . . . . 74401
**OKLAHOMA CITY**
Forest Sales Inc. . . . . 1039 NW 63rd St. . . . . 73116
**ADA**
Ada Auto Supply . . . . . 301 E. 12th St. . . . . 74820
**OREGON** — **PORTLAND**
Kenton Supply Co. . . . . 8216 N. Denver Ave. . . 97217
**PENNSYLVANIA** — **CHESTER**
Stull Equipment Corp. . . . . 742 W. Front St. . . . . 19013
**HARRISBURG**
EECO Inc. . . . . 4021 N. 6th St. . . . . 17110
**PHILADELPHIA**
Thompson Rubber Co. . . . . 5222-24 N Fifth St. . . . 19120
**PITTSBURGH**
Bluemont Co. . . . . 11125 Frankstown Rd. 15235
**TENNESSEE** — **KNOXVILLE**
Master Repair Service . . . . . 2423 Broadway, N.E. . 37917
**MEMPHIS**
Memphis Cycle & Supply Co. . . . 421 Monroe Ave. . . . . 38103
American Sales & Service, Inc. . . 1922 Lynnbrook . . . . . 38116
**TEXAS** — **DALLAS**
Marr Brothers, Inc. . . . . 423 E. Jefferson. . . . . 75203
**HOUSTON**
Bullard Supply Co. . . . . 2409 Commerce St. . . . 77003
**SAN ANTONIO**
Catto & Putty, Inc. . . . . P.O. Box 2408 . . . . . 78206
**FORT WORTH**
Woodson Sales Corp. . . . . 1702 N. Sylvania . . . . . 76111
**UTAH** — **SALT LAKE CITY**
A-1 Engine & Mower Co. . . . . 437 E. 9th St. . . . . 84111
**VERMONT** — **BURLINGTON**
Vermont Hdwe. Co. Inc. . . . . 180 Flynn Ave. . . . . 05401
**VIRGINIA** — **RICHMOND**
RBI Corp. . . . . 963 Myers St. . . . . 23260
**WASHINGTON** — **SEATTLE**
Bailey's Inc. . . . . 1414 14th Ave. . . . . 98122
**WEST VIRGINIA** — **CHARLESTON**
Young's, Inc. . . . . 233 Virginia St., E. . . . 25301
**WISCONSIN** — **APPLETON**
Automotive Supply Co. . . . . 123 S. Linwood Ave. . . 54911

**BRIGGS AND STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE**

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing **Engines—Gasoline**, Briggs & Stratton or Tecumseh Lauson.

**WARRANTY PARTS AND SERVICE POLICY**

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

**CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES**

1. **Replacement of Missing Parts** on new equipment.
2. **Replacement of Defective Parts** within the warranty period.
3. **Repair of Defects** within the warranty period.

All claims MUST be substantiated with the following information:

1. **Model Number** of unit involved.
2. **Date** unit was purchased or first put into service.
3. **Date of failure.**
4. **Nature of failure.**